

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 635

DATE: JANUARY 1, 2019

PROJECT MP0352

**The following classification changes will be effected by this Notice of Changes:**

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Notes New:	C07D	Subclass
	C07D	401/00
Guidance Headings Deleted:	C07D	203/00

**No other subclasses/groups are impacted by this Notice of Changes.**

**This Notice of Changes includes the following [Check the ones included]:**

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3.  REVISION CONCORDANCE LIST (RCL)

4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5.  CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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## 1. CLASSIFICATION SCHEME CHANGES

C. New, Modified or Deleted Note(s)**SUBCLASS C07D – HETROCYCLIC COMPOUNDS**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	C07D subclass		<p>1. This subclass <u>does not cover</u> compounds containing saccharide radicals as defined in Note (3) following the title of subclass C07H, which are covered by subclass C07H.</p> <p>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.</p> <p>3. In this subclass, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> <li>○ "hetero ring" is a ring having at least one halogen, nitrogen, oxygen, sulfur, selenium or tellurium atom as a ring member;</li> <li>○ "bridged" means the presence of at least one fusion other than ortho, peri or spiro;</li> <li>○ two rings are "condensed" if they share at least one ring member, i.e. "spiro" and "bridged" are considered as condensed;</li> <li>○ "condensed ring system" is a ring system in which all rings are condensed among themselves;</li> <li>○ "number of relevant rings" in a condensed ring system equals the number of scissions necessary to convert the ring system into one acyclic chain;</li> <li>○ "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: <ul style="list-style-type: none"> <li>a. lowest number of ring members;</li> <li>b. highest number of hetero atoms as ring members;</li> <li>c. lowest number of members shared with other rings;</li> <li>d. last place in the classification scheme.</li> </ul> </li> </ul>

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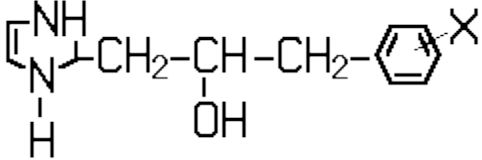
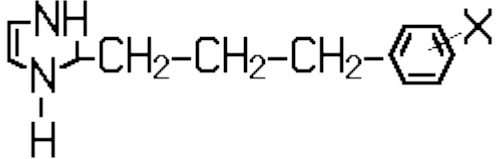
<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
			<p>4. Attention is drawn to Note (3) after class C07, which defines the last place priority rule applied in the range of subclasses C07C-C07K and within these subclasses.</p> <p>5. Therapeutic activity of compounds is further classified in subclass A61P.</p> <p>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:</p> <ul style="list-style-type: none"> <li>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;</li> <li>b. 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;</li> <li>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.</li> </ul> <p>7. In this subclass:</p> <ul style="list-style-type: none"> <li>○ 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;</li> <li>○ 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</li> </ul>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
			<p>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</p>  <p>is classified in group C07D 233/22,</p> <p>and the compound</p>  <p>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>.</p>
N	C07D 401/00 Under Guidance heading		Groups C07D 401/00-C07D 421/00 cover compounds containing two or more relevant hetero rings at least two of which are covered by different main groups of groups C07D 203/00-C07D 347/00, neither condensed among themselves nor condensed with a common carbocyclic ring or ring system.

\*N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

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D. New, Modified or Deleted Guidance Heading(s)

**SUBCLASS C07D – HETEROCYCLIC COMPOUNDS**

<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Guidance Heading</u></b>	<b><u>New/Modified Guidance Heading</u></b>
D	C07D 203/00	Heterocyclic compounds having only nitrogen as ring hetero atom	

\*N = new guidance heading, M =modified guidance heading, D = deleted guidance heading

NOTES:

- The “Location” column requires the symbol AFTER the guidance heading location. No further directions such as “before” or “after” are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the “Location” column. For example, the guidance heading “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen” encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the “Location” column as follows: 398/00 to be included under the guidance heading: “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen.”