

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 469

DATE: JANUARY 1, 2018

PROJECT MP0398

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	G21C	Subclass
	G21C	1/00, 1/022, 1/12, 1/16, 1/20, 1/30, 1/303
Warnings Modified:	G21C	Subclass
DEFINITIONS:		
Definitions New:	G21C	1/20, 1/303
Definitions Modified:	G21C	Subclass
	G21C	1/00

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)

CPC NOTICE OF CHANGES 469

DATE: JANUARY 1, 2018

PROJECT MP0398

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS G21C – NUCLEAR REACTORS (fusion reactors, hybrid fission-fusion reactors G21B; nuclear explosives G21J)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to[#]</u>
M	G21C	Subclass	NUCLEAR REACTORS (fusion reactors, hybrid fission-fusion reactors G21B; nuclear explosives G21J)	
M	G21C1/00	0	Reactor types	
M	G21C1/022	2	{characterised by the design or properties of the core}	
M	G21C1/12	5	moderator being solid, e.g. Magnox reactor {or gas-graphite reactor}	
M	G21C1/16	4	moderator and coolant being different or separated, e.g. sodium-graphite reactor {, sodium-heavy water reactor or organic coolant-heavy water reactor}	
M	G21C1/20	6	moderator being liquid, e.g. pressure-tube reactor	
M	G21C1/30	1	Subcritical reactors {; Experimental reactors other than swimming-pool reactors or zero-energy reactors}	
M	G21C1/303	2	{Experimental or irradiation arrangements inside the reactor (irradiation loops G21C1/306)}	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types except “D” which requires only a symbol.
- #“Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.

CPC NOTICE OF CHANGES 469

DATE: JANUARY 1, 2018

PROJECT MP0398

- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

CPC NOTICE OF CHANGES 469

DATE: JANUARY 1, 2018

PROJECT MP0398

B. New, Modified or Deleted Warning notice(s)

SUBCLASS G21C – NUCLEAR REACTORS (fusion reactors, hybrid fission-fusion reactors G21B; nuclear explosives G21J)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	G21C	The following IPC groups are not used in the CPC scheme: – G21C1/01 covered by all other groups of G21C – G21C19/33 covered by all other subgroups of G21C19/34	The following IPC groups are not used in the CPC scheme: – G21C19/33 covered by G21C19/34

*N = new warning, M = modified warning, D = deleted warning

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

2. A. DEFINITIONS (new)

Create the following new Definitions section **G21C 1/20**.

G21C 1/20

moderator being liquid, e.g. pressure-tube reactor

Definition statement

This place covers:

Reactors in which the moderator is liquid, such as pressure-tube reactors. This group also covers constructional details of pressure tubes in pressure-tube reactors.

2. A. DEFINITIONS (new)

Create the following new Definitions section **G21C 1/303**.

G21C 1/303

{Experimental or irradiation arrangements inside the reactor
(irradiation loops G21C 1/306)}

References

Limiting references

This place does not cover:

Irradiation loops	G21C 1/306
-------------------	----------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Material testing by neutrons	G01N 23/005
------------------------------	-----------------------------

CPC NOTICE OF CHANGES 469

DATE: JANUARY 1, 2018

PROJECT MP0398

2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G21C	Limiting references	Treating radioactively contaminated materials; Decontamination arrangements therefor G21F9/00	Delete this row
G21C	Informative references		Add: Treating radioactively contaminated materials; Decontamination arrangements therefor G21F9/00
G21C 1/00	Definition statement	<p>Nuclear fission reactors characterized by their type. Main division is made between fast neutron driven fission and moderated neutron drive fission reactors, the reactors being either critical or subcritical, loop-type or integral. Dedicated sections are defined for subcritical and integral reactors.</p> <p>Further information:</p> <p>Patent documents are generally covered by one of the main groups G21C3/00 - G21C23/00. Patent documents are covered also by G21C1/00 only in case of subject-matter related to new reactor concepts or to specific subject-matter in which the type of reactor plays a crucial role for a complete definition of such subject-matter.</p>	<p>Replace with:</p> <p>Nuclear fission reactors characterized by their type.</p> <p>Main division is made between fast neutron driven fission and moderated neutron drive fission reactors, the reactors being either critical or subcritical, loop-type or integral.</p> <p>Dedicated sections are defined for subcritical and integral reactors.</p>
G21C 1/00			<p>Create new Relationships with other classification places section, with the following text:</p> <p><u>Relationships with other classification places</u></p> <p>Classification is usually directed to main groups G21C3/00 - G21C23/00.</p> <p>Classification is also made in this group for subject-matter related to new reactor concepts or for subject-matter in which the type of reactor plays a crucial role.</p>

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.