EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1823

DATE: JANUARY 1, 2026

PROJECT RP12722

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

Action	**Subclass**	**Group(s)**
SCHEME:		
Symbols Deleted:	G21K	1/003, 1/006
Symbols New:	G21K	1/20, 1/30
Titles Changed:	G21K	SUBCLASS
	G21K	1/00
DEFINITIONS:		
Definitions Deleted:	G21K	1/003, 1/006
Definitions New:	G21K	1/20, 1/30
Definitions Modified:	G21K	Subclass
	G21K	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 1823

DATE: JANUARY 1, 2026

PROJECT RP12722

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS G21K – TECHNIQUES FOR HANDLING PARTICLES OR IONISING RADIATION NOT OTHERWISE PROVIDED FOR; IRRADIATION DEVICES; GAMMA RAY OR X-RAY MICROSCOPES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G21K	SUBCLASS	HANDLING OF PARTICLES OR IONISING RADIATION NOT OTHERWISE PROVIDED FOR; IRRADIATION DEVICES; GAMMA RAY OR X-RAY MICROSCOPES	
M	G21K 1/00	0	Arrangements for handling particles or ionising radiation, e.g. focusing or moderating	
D	G21K 1/003	1	{Manipulation of charged particles by using radiation pressure, e.g. optical levitation (acceleration of charged particles H05H 5/00, H05H 7/00, H05H 9/00, H05H 11/00, H05H 13/00)}	<administrative transfer to G21K 1/20>
D	G21K 1/006	1	{Manipulation of neutral particles by using radiation pressure, e.g. optical levitation (production or acceleration of neutral particles H05H 3/00)}	<administrative transfer to G21K 1/30>
U	G21K 1/16	1	using polarising devices, e.g. for obtaining a polarised beam {(ion sources, ion guns H01J 27/02; polarised targets for producing nuclear reactions H05H 6/005)}	
N	G21K 1/20	1	for confining charged particles or handling confined charged particles, e.g. ion traps	
N	G21K 1/30	1	for confining neutral particles or handling confined neutral particles, e.g. atom traps	

*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; T= 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).
- U groups: it is obligatory to display the required "anchor" symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups).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 .
- "Transferred to" column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- 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>", "<administrative transfer to XX and YY simultaneously>", or "<administrative transfer to XX, YY, ...and ZZ simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be "additional information".
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations "ADD" or "INV": <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the "D" entries of 2000-series or Y-series groups may not require a destination ("Transferred to") symbol, however it is required to specify "<no transfer>" in the "Transferred to" column for such cases.
- For finalisation projects, the deleted "F" symbols should have <no transfer> in the "Transferred to" column.
- For more details about the types of scheme change, see CPC Guide.

2. A. DEFINITIONS (new)

G21K 1/20

Definition statement

This place covers:

Arrangements or techniques for confining charged particles or manipulating confined charged particles, such as ion traps. Examples of techniques for confining or manipulating of the confined charged particles are magnetic or optical levitation techniques.

This place also covers containers for antimatter.

References

References out of a residual place

Examples of places in relation to which this place is residual:

Physical realisations or architectures of quantum processors or components for manipulating qubits, e.g. qubit coupling or qubit control	G06N 10/40
Mass spectrometers or separator tubes	H01J 49/26

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

radiation pressure	pressure exerted upon any surface exposed to electromagnetic radiation. If absorbed, the pressure is the power flux density divided by the speed of light. If the radiation is totally reflected, the radiation pressure is doubled.

G21K 1/30

Definition statement

This place covers:

Arrangements or techniques for confining neutral particles or manipulating confined neutral particles, such as atom traps. Examples of arrangements for confining or manipulating of the confined neutral particles are magneto-optical atom traps.

This place also covers containers for antimatter.

References

References out of a residual place

Examples of places in relation to which this place is residual:

Manufacture or treatment of nanostructures by manipulation of individual atoms or molecules	B82B 3/00
Apparatus for producing preselected time intervals for use as timing standards using atomic clocks	G04F 5/14
Physical realisations or architectures of quantum processors or components for manipulating qubits, e.g. qubit coupling or qubit control	G06N 10/40

2. A. DEFINITIONS (modified)

G21K

References

Delete: The entire Limiting references section.

Insert: The following new reference in the Informative references table.

Informative references

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

Investigating or analysing materials by the use of wave or particle radiation, e.g. X-rays or neutrons	G01N 23/00

Replace: The existing Glossary of terms table with the following updated table.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

ionising radiation	'ionising radiation' consists of particles or electromagnetic waves that are sufficiently energetic to detach electrons from atoms or molecules, thus ionising them
particle	'particle' means a molecular, atomic or subatomic particle

G21K 1/00

Replace: The existing Definition statement with the following updated statement.

Definition statement

This place covers:

- Diaphragms, collimators for handling ionizing radiation;
- Arrangements using diffraction, refraction or reflection, e.g. monochromators, for handling ionizing radiation;
- Deviation, concentration or focusing of the beam by electric or magnetic means;
- Scattering devices;
- Absorbing devices;
- Filters for ionising radiation.

References

Delete: The entire Limiting references section.

Replace: The existing Informative references table with the following updated table.

Informative references

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

Moderators in nuclear reactors	G21C 5/00
Electric discharge tubes	H01J
Production or acceleration of neutrons, electrically charged particles or neutral molecular or atomic beams	H05H 3/00 - H05H 15/00

2. B. DEFINITIONS QUICK FIX

Symbol	**Location of change** (e.g., section title)	**Existing reference symbol or text**	**Action; New symbol; New text**
G21K 1/003			Delete entire Definition
G21K 1/006			Delete entire Definition

Notes:
Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

Reminder: Never delete F symbol definitions.

3. REVISION CONCORDANCE LIST (RCL)

Type*	**From CPC Symbol (existing)**	**To CPC Symbol(s)**
D	G21K 1/003	<administrative transfer to G21K 1/20>
D	G21K 1/006	<administrative transfer to G21K 1/30>

* 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; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the "To" column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: "< administrative transfer to XX>", "<administrative transfer to XX and YY simultaneously>", or "<administrative transfer to XX, YY, ...and ZZ simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be "additional information".
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations "ADD" or "INV": <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the "D" entries of 2000-series or Y-series groups may not require a destination ("To") symbol, however it is required to specify "<no transfer>" in the "To" column for such cases.
- RCL is not needed for finalisation projects.

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

CPC	**IPC**	**Action***
G21K 1/003		DELETE
G21K 1/006		DELETE
G21K 1/20	G21K 1/20	NEW
G21K 1/30	G21K 1/30	NEW

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.