

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1638

DATE: AUGUST 1, 2024

PROJECT RP11898

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted Pending Reclassification: (frozen (F))	H05G	2/005, 2/006
Symbols New:	H05G	2/002, 2/0023, 2/0025, 2/0027, 2/0035, 2/007, 2/0082, 2/0084, 2/0086, 2/0088, 2/009, 2/0092, 2/0094
Titles Changed:	H05G	2/001, 2/003, 2/008
Warnings New:	H05G	2/001, 2/002, 2/0023, 2/003, 2/0035, 2/005, 2/006, 2/007, 2/008, 2/0082, 2/0088, 2/009
DEFINITIONS:		
Definitions New:	H05G	2/002, 2/0023, 2/0025, 2/0027, 2/0082, 2/0086, 2/0088, 2/009, 2/0092, 2/0094
Definitions Modified:	H05G	2/001, 2/003

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 1638

DATE: AUGUST 1, 2024

PROJECT RP11898

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS H05G – X-RAY TECHNIQUE

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
C	H05G 2/001	1	{Production of X-ray radiation generated from plasma}	H05G2/001, H05G2/002, H05G2/0023, H05G2/0025, H05G2/0027, H05G2/007, H05G2/009, H05G2/0092, H05G2/0094
N	H05G 2/002	2	{Supply of the plasma generating material}	
N	H05G 2/0023	3	{Constructional details of the ejection system}	
N	H05G 2/0025	3	{Systems for collecting the plasma generating material after the plasma generation}	
N	H05G 2/0027	3	{Arrangements for controlling the supply; Arrangements for measurements}	
C	H05G 2/003	2	{the plasma being generated from a material in a liquid or gas state}	H05G2/002, H05G2/0025, H05G2/0027, H05G2/003, H05G2/007, H05G2/0088, H05G2/009, H05G2/0092, H05G2/0094
N	H05G 2/0035	3	{the material containing metals as principal radiation-generating components}	
F	H05G 2/005	3	{containing a metal as principal radiation generating component}	H05G2/002, H05G2/0027, H05G2/0025, H05G2/0035, H05G2/007, H05G2/0088, H05G2/009, H05G2/0092, H05G2/0094
F	H05G 2/006	3	{details of the ejection system, e.g. constructional details of the nozzle}	H05G2/002, H05G2/0023, H05G2/0025, H05G2/0027, H05G2/007, H05G2/009, H05G2/0092, H05G2/0094
N	H05G 2/007	2	{involving electric or magnetic fields in the process of plasma generation}	
C	H05G 2/008	2	{involving an energy-carrying beam in the process of plasma generation}	H05G2/002, H05G2/0023, H05G2/0025, H05G2/0027, H05G2/007, H05G 2/008, H05G2/0082, H05G2/0084, H05G2/0086, H05G2/0088, H05G2/009, H05G2/0092, H05G2/0094

CPC NOTICE OF CHANGES 1638

DATE: AUGUST 1, 2024

PROJECT RP11898

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[#]
N	H05G 2/0082	3	{the energy-carrying beam being a laser beam}	
N	H05G 2/0084	4	{Control of the laser beam}	
N	H05G 2/0086	4	{Optical arrangements for conveying the laser beam to the plasma generation location}	
N	H05G 2/0088	4	{for preconditioning the plasma generating material}	
N	H05G 2/009	2	{Auxiliary arrangements not involved in the plasma generation}	
N	H05G 2/0092	3	{Housing of the apparatus for producing X-rays; Environment inside the housing}	
N	H05G 2/0094	3	{Reduction, prevention or protection from contamination; Cleaning}	

*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.

CPC NOTICE OF CHANGES 1638

DATE: AUGUST 1, 2024

PROJECT RP11898

B. New, Modified or Deleted Warning(s)

SUBCLASS H05G – X-RAY TECHNIQUE

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New Warning</u>
N	H05G 2/001		Group H05G 2/001 is impacted by reclassification into groups H05G 2/002-H05G 2/0027, H05G 2/007 and H05G 2/009-H05G 2/0094. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/002		Groups H05G 2/002, H05G 2/0025 and H05G 2/0027 are incomplete pending reclassification of documents from groups H05G 2/001, H05G 2/003, H05G 2/005, H05G 2/006 and H05G 2/008. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/0023		Group H05G 2/0023 is incomplete pending reclassification of documents from groups H05G 2/001, H05G 2/006 and H05G 2/008. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/003		Group H05G 2/003 is impacted by reclassification into groups H05G 2/002, H05G 2/0025, H05G 2/0027, H05G 2/007, H05G 2/0088 and H05G 2/009-H05G 2/0094. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/0035		Group H05G 2/0035 is incomplete pending reclassification of documents from group H05G 2/005. Groups H05G 2/005 and H05G 2/0035 should be considered in order to perform a complete search.
N	H05G 2/005		Group H05G 2/005 is no longer used for the classification of documents as of August 1, 2024. The content of this group is being reclassified into groups H05G 2/002, H05G 2/0025, H05G 2/0027, H05G 2/0035, H05G 2/007, H05G 2/0088 and H05G 2/009-H05G 2/0094. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/006		Group H05G 2/006 is no longer used for the classification of documents as of August 1, 2024. The content of this group is being reclassified into groups H05G 2/002-H05G 2/0027, H05G 2/007 and H05G 2/009-H05G 2/0094. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/007		Group H05G 2/007 is incomplete pending reclassification of documents from groups H05G 2/001, H05G 2/003, H05G 2/005,

CPC NOTICE OF CHANGES 1638

DATE: AUGUST 1, 2024

PROJECT RP11898

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New Warning</u>
			H05G 2/006 and H05G 2/008. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/008		Group H05G 2/008 is impacted by reclassification into groups H05G 2/002-H05G 2/0027, H05G 2/007, H05G 2/0082-H05G 2/0088 and H05G 2/009-H05G 2/0094. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/0082		Groups H05G 2/0082, H05G 2/0084 and H05G 2/0086 are incomplete pending reclassification of documents from group H05G 2/008. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/0088		Group H05G 2/0088 is incomplete pending reclassification of documents from groups H05G 2/003, H05G 2/005 and H05G 2/008. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05G 2/009		Groups H05G 2/009-H05G 2/0094 are incomplete pending reclassification of documents from groups H05G 2/001, H05G 2/003, H05G 2/005, H05G 2/006 and H05G 2/008. All groups listed in this Warning should be considered in order to perform a complete search.

*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)

H05G 2/002

Synonyms and Keywords

In patent documents, the word in the first column is often used instead of the expression in the second column, which is used in the classification scheme of this place:

target	Plasma-generating material
--------	----------------------------

H05G 2/0023

Definition statement

This place covers:

Details of the system for introducing the plasma-generating material into the source.

H05G 2/0025

Definition statement

This place covers:

Apparatus for the collection of unused plasma-generating material, for exiting the plasma-generating material from the source.

H05G 2/0027

Definition statement

This place covers:

Apparatus and processes for controlling the supply of the plasma-generating material and arrangements for measuring "per se" or in relation with controlling the supply.

DATE: AUGUST 1, 2024

PROJECT RP11898

Special rules of classification

If in combination with the control of a laser beam that is involved in the process of generating the plasma, H05G2/0084 should be also allocated.

H05G 2/0082

Informative references

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

Lasers	H01S3/00
--------	--------------------------

H05G 2/0086

Informative references

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

Optical systems in general	G02B
----------------------------	----------------------

H05G 2/0088

Definition statement

This place covers:

Lasers used for preconditioning the plasma generating material, i.e. not yet resulting in the desired X-ray emission.

DATE: AUGUST 1, 2024

PROJECT RP11898

H05G 2/009

Definition statement

This place covers:

Aspects of the apparatus specially adapted for producing X-rays that are not directed to the generation of the plasma.

H05G 2/0092

Definition statement

This place covers:

Details of the source vessel construction and internal environment, e.g. gas-filling.

H05G 2/0094

Definition statement

This place covers:

Apparatus and processes for preventing and/or reducing contamination, e.g. debris generating from the plasma material, and for protecting and cleaning elements of the X-ray apparatus, e.g. the collector.

Informative references

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

Lamphouse reflector arrangements	G03F 7/70175
Pollution mitigation	G03F 7/70916
Cleaning	G03F 7/70925
Devices having a multilayer structure	G21K 1/062

DATE: AUGUST 1, 2024

PROJECT RP11898

2. A. DEFINITIONS (modified)

H05G 2/001

Insert: The following new Informative references table.

References

Informative references

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

Plasma for generation of electrons to be accelerated towards an anode	H01J 35/00
---	----------------------------

H05G 2/003

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

Definition statement

This place covers:

Generation of radiation from plasma being produced from material which is provided in a non-bulk state, including liquids which solidify (e.g. in clusters or frozen droplets) in the vacuum chamber, e.g. after passing the liquid through a nozzle; discharge plasma sources; including Sn or Li sources where the material to be excited is evaporated or molten before excitation to plasma.

CPC NOTICE OF CHANGES 1638

DATE: AUGUST 1, 2024

PROJECT RP11898

3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	H05G 2/001	H05G 2/001, H05G 2/002, H05G 2/0023, H05G 2/0025, H05G 2/0027, H05G 2/007, H05G 2/009, H05G 2/0092, H05G 2/0094
C	H05G 2/003	H05G 2/002, H05G 2/0025, H05G 2/0027, H05G 2/003, H05G 2/007, H05G 2/0088, H05G 2/009, H05G 2/0092, H05G 2/0094
F	H05G 2/005	H05G 2/002, H05G 2/0027, H05G 2/0025, H05G 2/0035, H05G 2/007, H05G 2/0088, H05G 2/009, H05G 2/0092, H05G 2/0094
F	H05G 2/006	H05G 2/002, H05G 2/0023, H05G 2/0025, H05G 2/0027, H05G 2/007, H05G 2/009, H05G 2/0092, H05G 2/0094
C	H05G 2/008	H05G 2/002, H05G 2/0023, H05G 2/0025, H05G 2/0027, H05G 2/007, H05G 2/008, H05G 2/0082, H05G 2/0084, H05G 2/0086, H05G 2/0088, H05G 2/009, H05G 2/0092, H05G 2/0094

* 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.

CPC NOTICE OF CHANGES 1638

DATE: AUGUST 1, 2024

PROJECT RP11898

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H05G 2/002	H05G 2/00	NEW
H05G 2/0023	H05G 2/00	NEW
H05G 2/0025	H05G 2/00	NEW
H05G 2/0027	H05G 2/00	NEW
H05G 2/0035	H05G 2/00	NEW
H05G 2/007	H05G 2/00	NEW
H05G 2/0082	H05G 2/00	NEW
H05G 2/0084	H05G 2/00	NEW
H05G 2/0086	H05G 2/00	NEW
H05G 2/0088	H05G 2/00	NEW
H05G 2/009	H05G 2/00	NEW
H05G 2/0092	H05G 2/00	NEW
H05G 2/0094	H05G 2/00	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.