EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1691

DATE: JANUARY 1, 2025

PROJECT MP12365

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

Action	**Subclass**	**Group(s)**
SCHEME:		
Titles Changed:	H05H	SUBCLASS
	H05H	1/42,1/52
	H05H	3/02
	H05H	5/03
	H05H	7/02
Notes New	H05H	SUBCLASS
DEFINITIONS:		
Definitions Modified:	H05H	SUBCLASS
Definitions Modified:	H05H	1/42, 1/52, 3/02, 5/03, 7/02

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

A. New, Modified or Deleted Group(s)

SUBCLASS H05H - PLASMA TECHNIQUE; PRODUCTION OF ACCELERATED ELECTRICALLY-CHARGED PARTICLES OR OF NEUTRONS; PRODUCTION OR ACCELERATION OF NEUTRAL MOLECULAR OR ATOMIC BEAMS

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	H05H	Subclass	PLASMA TECHNIQUE (apparatus or processes specially adapted for producing X-rays H05G 2/00); PRODUCTION OF ACCELERATED ELECTRICALLY-CHARGED PARTICLES OR OF NEUTRONS; PRODUCTION OR ACCELERATION OF NEUTRAL MOLECULAR OR ATOMIC BEAMS	
M	H05H 1/42	4	with provisions for introducing materials into the plasma, e.g. powder or liquid {(arc stabilising or constricting arrangements H05H1/3405; coaxial protecting fluids H05H1/341)}	
M	H05H 1/52	2	using exploding wires or spark gaps (H05H1/26 takes precedence)	
M	H05H 3/02	1	Molecular or atomic-beam generation, e.g. resonant beam generation	
M	H05H 5/03	2	Accelerating tubes	
M	H05H 7/02	1	Circuits or systems for supplying or feeding radio-frequency energy	

*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.

C. New, Modified or Deleted Note(s)

SUBCLASS H05H - PLASMA TECHNIQUE; PRODUCTION OF ACCELERATED ELECTRICALLY-CHARGED PARTICLES OR OF NEUTRONS; PRODUCTION OR ACCELERATION OF NEUTRAL MOLECULAR OR ATOMIC BEAMS

Type*	Location	No old note	New Note
N	H05H		1. This subclass covers: a. generating or handling plasma; b. devices for accelerating electrons, ion beams or neutral particles; c. devices for producing neutral particle beams; d. targets for (a), (b) or (c). 2. This subclass does not cover devices for producing, accelerating, influencing or using a flow of electrons or ions within electric discharge tubes or discharge lamps, which are covered by subclass H01J.

*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.

2. A. DEFINITIONS (modified)

H05H

Replace: The last paragraph of Definition statement with the following updated text.

Definition statement

Systems and methods for accelerating charged particle beams, i.e. electrostatic accelerators, linear accelerators, magnetic induction accelerators, magnetic resonance accelerators.

References

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

Limiting references

Apparatus or processes specially adapted for producing X-rays	H05G 2/00

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

Informative references

Atomic clocks	G04F 5/14
Obtaining neutrons from radioactive sources	G21, e.g. G21B, G21C, G21G
Thermonuclear fusion reactors	G21B 1/00
Radioactive neutron sources	G21G 4/02
Techniques for handling particles or ionising radiation not otherwise provided for; Irradiation devices; Gamma ray or X-ray microscopes	G21K
Ion beam tubes	H01J 27/00
Gas-filled discharge tubes for surface treatments	H01J 37/32
Mass spectrometers	H01J 49/00
Devices using stimulated emission	H01S
Magnetohydrodynamic generators	H02K 44/08

Frequency regulation by comparison with a reference frequency determined by energy levels of molecules, atoms or subatomic particles	H03L 7/26

H05H 1/42

References

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

Limiting references

Arc stabilising or constricting arrangements	H05H 1/3405
Coaxial protecting fluids arrangements	H05H 1/341

Insert: The following new Informative references table.

Informative references

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

Electrostatic spraying or spraying apparatus with means for charging the spray electrically	B05B 5/00
Spraying apparatus incorporating means for heating the material to be sprayed electrically, magnetically or electromagnetically, e.g. by arc	B05B 7/22
Devices for supplying a welding powder	B23K 9/324

H05H 1/52

References

Delete: The numbers from the symbol in the Informative references table so that the new table appears as follows.

Informative references

Spark gaps in general	H01T

H05H 3/02

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Neutron generation	H05H 3/06
Molecular beams for analysing or investigating materials	G01N 24/002
Optical traps	G02B 21/32
Atomic clocks	G04F 5/14
Charge exchange devices	G21K 1/14
Polarising devices	G21K 1/16
Cathodic sputtering	H01J 37/34
Gas masers	H01S 1/06

H05H 5/03

References

Delete: The entire Limiting references section.

Insert: The following new Informative references table.

Informative references

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

Vessels or containers of electric discharge tubes with improved potential distribution over surface of vessel	H01J 5/06
Shields of X-ray tubes associated with vessels or containers	H01J 35/16

H05H 7/02

References

Delete: The entire Limiting references section.

Insert: The following new Informative references table.

Informative references

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

Radio-frequency generators	H03B
Klystrons	H03B 9/04