

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1878

DATE: MAY 1, 2026

PROJECT MP12752

**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>		
Titles Changed:	C01B	13/0296, 21/0923, 25/301, 25/327, 33/283
	C01C	1/0417
	C03B	37/018
	C04B	33/132, 33/1321, 33/135, 38/067
	C07C	1/046, 35/36
	C09B	55/001, 69/10
	C10B	53/07
	C11D	1/347
	C12C	9/025
	C12P	33/20
	D06P	1/67375
Notes Modified:	C12P	33/00
<b>DEFINITIONS:</b>		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	C01B	25/301, 25/327
Definitions Modified:	C01C	1/0417
	C04B	33/132, 33/1321, 33/135
Definitions New:	C09B	69/10

**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)

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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)**C01B - NON-METALLIC ELEMENTS; COMPOUNDS THEREOF; {METALLOIDS OR COMPOUNDS THEREOF NOT COVERED BY SUBCLASS C01C}**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C01B13/0296	2	{Generators releasing in a self-sustaining way pure oxygen from a solid charge, without interaction of it with a fluid nor external heating, e.g. chlorate candles or canisters containing them}	
M	C01B21/0923	4	{Metal imides or amides}	
M	C01B25/301	4	{Preparation from liquid orthophosphoric acid or from an acid solution or suspension of orthophosphates}	
M	C01B25/327	4	{After-treatment}	
M	C01B33/283	6	{from a reaction mixture containing at least one aluminium silicate or aluminosilicate of a clay-type, e.g. kaolin or metakaolin or its exotherm modification or allophane}	

**C01C - AMMONIA; CYANOGEN; COMPOUNDS THEREOF** ({metal hydrides, monoborane, diborane or addition complexes thereof C01B 6/00}; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; thiosulfates, dithionites, polythionates C01B 17/64; compounds containing selenium or tellurium C01B 19/00; azides C01B 21/08; {compounds other than ammonia or cyanogen, containing nitrogen, non-metals and optionally metals C01B 21/082}; metal imides or amides C01B 21/092; nitrites C01B 21/50; {compounds of noble gases C01B 23/0005}; phosphides C01B 25/08; salts of oxyacids of phosphorus C01B 25/16; compounds containing silicon C01B 33/00; compounds containing boron C01B 35/00)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C01C1/0417	4	{characterised by the synthesis reactor, e.g. arrangement of catalyst beds and heat exchangers in the reactor}	

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**C03B - MANUFACTURE, SHAPING, OR SUPPLEMENTARY PROCESSES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C03B37/018	4	by glass deposition on a glass substrate, e.g. by {inside-, modified-, plasma- or plasma modified-} chemical vapour deposition {[ICVD, MCVD, PCVD, PMCVD], i.e. by thin layer coating on the inside or outside of a glass tube or on a glass rod} (C03B37/016 takes precedence; surface treatment of glass by coating with glass C03C17/02)	

**C04B - LIME, MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF, e.g. MORTARS, CONCRETE OR LIKE BUILDING MATERIALS; ARTIFICIAL STONE {(roofing granules E04D 7/005)}; CERAMICS (devitrified glass-ceramics C03C 10/00); REFRACTORIES; TREATMENT OF NATURAL STONE**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C04B33/132	3	Waste materials; Refuse{; Residues} (C04B33/16 takes precedence)	
M	C04B33/1321	4	{Waste slurries, e.g. harbour sludge, industrial muds}	
M	C04B33/135	4	Combustion residues, e.g. fly ash, incineration waste	
M	C04B38/067	5	{Macromolecular compounds (C04B38/062 takes precedence)}	

**C07C - ACYCLIC OR CARBOCYCLIC COMPOUNDS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C07C1/046	4	{Numerical values of parameters}	
M	C07C35/36	3	the condensed ring system being a [4.4.0] system, e.g. hydrogenated naphthols	

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**C09B - ORGANIC DYES OR CLOSELY-RELATED COMPOUNDS FOR PRODUCING DYES {, e.g. PIGMENTS}; MORDANTS; LAKES (fermentation or enzyme using processes to synthesise a desired chemical compound C12P)**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C09B55/001	1	{Azomethine dyes forming a 1,2 complex metal compound, e.g. with Co or Cr, with another dye, e.g. with an azo or azomethine dye}	
M	C09B69/10	1	Polymeric dyes; Reaction products of dyes with monomers or with macromolecular compounds	

**C10B - DESTRUCTIVE DISTILLATION OF CARBONACEOUS MATERIALS FOR PRODUCTION OF GAS, COKE, TAR, OR SIMILAR MATERIALS (cracking oils C10G; underground gasification of minerals E21B 43/295)**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C10B53/07	1	{of solid raw materials consisting} of synthetic polymeric materials, e.g. tyres (recovery or working-up of waste materials of organic macromolecular compounds or compositions based thereon by dry-heat treatment for obtaining partially depolymerised materials C08J11/10; production of liquid hydrocarbon mixtures from rubber or rubber waste C10G1/10)	

**C11D - DETERGENT COMPOSITIONS; USE OF SINGLE SUBSTANCES AS DETERGENTS; SOAP OR SOAP-MAKING; RESIN SOAPS; RECOVERY OF GLYCEROL**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C11D1/347	3	{Other P-containing anionic compounds (C11D1/006 takes precedence)}	

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**C12C - BEER; PREPARATION OF BEER BY FERMENTATION (ageing or ripening by storing C12H 1/22; methods for reducing the alcohol content after fermentation C12H 3/00; methods for increasing the alcohol content after fermentation C12H 6/00; venting devices for casks, barrels or the like C12L 9/00); PREPARATION OF MALT FOR MAKING BEER; PREPARATION OF HOPS FOR MAKING BEER**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots</u> <u>(e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	C12C9/025	2	{Preparation of hop extracts; Isomerisation of these extracts; Treatment of beerwort with these extracts; Surrogates of the hop}	

**C12P - FERMENTATION OR ENZYME-USING PROCESSES TO SYNTHESISE A DESIRED CHEMICAL COMPOUND OR COMPOSITION OR TO SEPARATE OPTICAL ISOMERS FROM A RACEMIC MIXTURE {(brewing of beer C12C; producing vinegar C12J; producing specific peptides or proteins C07K; producing enzymes C12N 9/00; DNA or RNA concerning genetic engineering, vectors, e.g. plasmids, or their isolation, preparation or purification C12N 15/00; measuring or testing processes involving enzymes or microorganisms C12Q; measuring or testing processes involving nucleic acid amplification reactions C12Q 1/6844; fermentation processes to form a food composition, A21 or A23; compounds in general, see the relevant compound class, e.g. C01, C07)}**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots</u> <u>(e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	C12P33/20	1	containing heterocyclic rings	

**D06P - DYEING OR PRINTING TEXTILES; DYEING LEATHER, FURS OR SOLID MACROMOLECULAR SUBSTANCES IN ANY FORM**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots</u> <u>(e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	D06P1/67375	5	{with sulfur-containing anions}	

\*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).

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- 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.

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C. New, Modified or Deleted Note(s)

**C12P - FERMENTATION OR ENZYME-USING PROCESSES TO SYNTHESISE A DESIRED CHEMICAL COMPOUND OR COMPOSITION OR TO SEPARATE OPTICAL ISOMERS FROM A RACEMIC MIXTURE {(brewing of beer C12C; producing vinegar C12J; producing specific peptides or proteins C07K; producing enzymes C12N 9/00; DNA or RNA concerning genetic engineering, vectors, e.g. plasmids, or their isolation, preparation or purification C12N 15/00; measuring or testing processes involving enzymes or microorganisms C12Q; measuring or testing processes involving nucleic acid amplification reactions C12Q 1/6844; fermentation processes to form a food composition, A21 or A23; compounds in general, see the relevant compound class, e.g. C01, C07)}**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	C12P33/00	<p>1. Attention is drawn to the definition of steroids in the note following the title of subclass C07J.</p> <p>2. In groups C12P 33/02 - C12P 33/20, the terms "acting", "forming", "hydroxylating", "dehydroxylating" and "dehydrogenating" refer to the action of a microorganism or enzyme rather than other chemical action.</p>	<p>1. Attention is drawn to Note (1) following the title of subclass C07J, which explains what is covered by the term "steroids".</p> <p>2. In groups C12P 33/02 - C12P 33/20, the following terms are used with the meaning indicated: - "acting", "forming", "hydroxylating", "dehydroxylating" or "dehydrogenating" means the action of a microorganism or enzyme rather than other chemical action.</p> <p>3. {In groups C12P 33/005 - C12P 33/20, the last place priority rule does not apply. Classification may be made in more than one place within C12P33/00 - C12P33/18, in contrast to the general last place rule that applies throughout C12P.}</p> <p>4. {This Note corresponds to IPC Note (1) relating to C12P 3/00 - C12P 37/00.}</p>

\*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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## 2. A. DEFINITIONS (New)

**C09B69/10**

### **References**

#### ***Informative references***

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

Dyeing with polymeric dyes involving building the polymeric dyes on the fibres	<a href="#">D06P1/0056M</a>
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## 2. A. DEFINITIONS (Modified)

### C01C1/0417

#### Definition statement

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

Synthesis in gas phase of ammonia.

Catalysts or reactors used in the process.

Heat exchangers arranged in the reactor.

#### References

Delete: The entire Limiting references section.

#### Informative references

Delete: The colon at the end of the first row in the existing Informative references table.

Fixed-bed reactors	<a href="#">B01J8/02</a>
Preparation or purification of gas mixtures for ammonia synthesis	<a href="#">C01B3/025</a>

### C04B33/132

#### Definition statement

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

The use of waste materials to make clay objects, e.g. silica fume, except for waste glass.

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Delete: The entire Relationships section.

## References

### *Limiting references*

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

Adding lean materials, e.g. grog quartz	C04B33/16
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### *Informative references*

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

Cements containing slag	C04B7/14
Use of waste materials or refuse as fillers for mortars, concrete or artificial stone	C04B18/04
Use of agglomerated or waste materials or refuse as fillers for mortars, concrete or artificial stone, or treatment of agglomerated or waste materials or refuse, specially adapted to enhance their filling properties in mortars, concrete or artificial stone; Waste material from metallurgical processes being silica fume	C04B18/146
Use of inorganic materials as active ingredients for mortars, concrete or artificial stone, e.g. accelerators; Waste inorganic materials	C04B22/0006
Using waste materials or refuse in ceramic or refractory mixtures	C04B35/62204
Burnable, meltable, sublimable materials characterised by physical aspects, e.g. shape, size or porosity	C04B38/065
Coating or impregnating of mortars, concrete, artificial stone or ceramics with waste materials	C04B41/4598
Phosphates or phosphites (calcium phosphates C04B2235/3212) as starting material for making ceramics, e.g. orthophosphate ( $\text{PO}_4^{3-}$ ), pyrophosphate ( $\text{P}_2\text{O}_7^{4-}$ ), hypophosphite ( $\text{H}_2\text{PO}_2^-$ ) or present as secondary phase in the sintered ceramic	C04B2235/447
Disposal of solid waste	B09B
Manufacture of articles from scrap or waste metal particles	B22F8/00
Active carbon from waste materials, e.g. tyres, spent sulphite pulp liquor	C01B32/324

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Preparation of alkali metal aluminates; Aluminium oxide or hydroxide there from by treating aluminous minerals or waste-like raw materials with alkali hydroxide	C01F7/06
Melting in furnaces of glass-forming waste materials	C03B5/005
Use of waste materials, e.g. slags as ingredients generally applicable to manufacture of glasses, glazes or vitreous enamels	C03C1/002
Devitrified glass ceramics containing waste materials, e.g. slags	C03C10/0063
Foundations for pavings characterised by material or composition used, e.g. waste or recycled material	E01C3/003
Removing ash, clinker or slag from combustion chambers	F23J1/00

### Glossary of terms

Replace: The capital “D” in the left-hand column with a lowercase “d”, so that the updated Glossary of terms table appears as follows.

devitrified glass ceramics	glass ceramics having a crystalline phase dispersed in a glassy phase and constituting at least 50% by weight of the total composition
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### C04B33/1321

#### Definition statement

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

The use of waste slurries, e.g. unburned sewage sludge, for making clay objects.

Delete: The entire Relationships section.

#### References

Delete: The entire Limiting references section.

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**Informative references**

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

Use of waste materials or refuse as fillers for mortars, concrete or artificial stone: wet materials, e.g. slurries	<a href="#">C04B18/0418</a>
Use of waste materials or refuse as fillers for mortars, concrete or artificial stone: dredged harbour or river sludge	<a href="#">C04B18/0436</a>
Use of inorganic materials as active ingredients for mortars, concrete or artificial stone, e.g. accelerators: waste slurries or solutions used as gauging water	<a href="#">C04B22/0046</a>
Incineration residues, e.g. sewage sludge ash or slag	<a href="#">C04B33/1357</a>
Treatment of water, waste water, sewage or sludge	<a href="#">C02F</a>
Use of inorganic or non-macromolecular organic substances as compounding ingredients in polymers: waste materials, e.g. treated or untreated sewage sludge	<a href="#">C08K11/005</a>
Incineration of waste adapted for burning two or more kinds, e.g. liquid and solid, of waste being fed through separate inlets	<a href="#">F23G5/008</a>
Incinerators or other apparatus for consuming industrial waste for sludges or waste products from water treatment installations	<a href="#">F23G7/001</a>

**C04B33/135****Definition statement**

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

The residues of the combustion of all wastes, e.g. residues of the combustion of hazardous waste, refuse.

Delete: The entire Relationships section.

**References**

Delete: The entire Limiting references section.

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***Informative references***

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

Hydraulic cements from combustion residues, e.g. ashes or slags from waste incineration	<a href="#">C04B7/28</a>
Use of waste materials or refuse as fillers for mortars, concrete or artificial stone; Combustion residues, e.g. purification products of smoke, fumes or exhaust gases	<a href="#">C04B18/06</a>
Hydraulic ash cements, e.g. fly ash cements, cements based on incineration residues, kiln dust cements	<a href="#">C04B28/021</a>
Porous mortars, concrete, artificial stone or ceramic ware, by burning-out added substances; Waste material; Refuse other than vegetable refuse	<a href="#">C04B38/0665</a>
Chemical or biological purification of waste gases	<a href="#">B01D53/34</a>
Removal or treatment of combustion products or combustion residues	<a href="#">F23J</a>

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2. B. DEFINITIONS QUICK FIX

<b><u>Symbol</u></b>	<b><u>Location of change</u></b> (e.g., section title)	<b><u>Existing reference symbol or text</u></b>	<b><u>Action; New symbol; New text</u></b>
C01B25/301	Limiting references		Delete the entire Definition
C01B25/327	Limiting references		Delete the entire Definition

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.