

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 158

JANUARY 1, 2016

PROJECT RP0314

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Symbols deleted:	C23C	4/005
	C23C	4/065
	C23C	4/085
	C23C	4/105
	C23C	4/121
	C23C	4/122
	C23C	4/124
	C23C	4/125
	C23C	4/127
	C23C	4/128
Symbols newly created:	C23C	4/01
	C23C	4/067
	C23C	4/073
	C23C	4/11
	C23C	4/123
	C23C	4/126
	C23C	4/129
	C23C	4/131
	C23C	4/134
	C23C	4/137
Title wording change:	B22F	3/115
	C23C	4/00
	C23C	4/06
	C23C	4/08
	C23C	4/10
	C23C	4/14
Definitions: New/Modified/Symbol renumbered:	C23C	4/00 (modified)
	C23C	4/005 (modified; symbol renumbered to 4/01)
	C23C	4/01 (new)
	C23C	4/04 (modified)
	C23C	4/06 (modified)
	C23C	4/073 (new)

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	C23C	4/08 (modified)
	C23C	4/085 (modified; symbol renumbered to 4/073)
	C23C	4/10 (modified)
	C23C	4/105 (modified; symbol renumbered to 4/11)
	C23C	4/12 (modified)
	C23C	4/121 (modified; symbol renumbered to 4/123)
	C23C	4/122 (modified; symbol renumbered to 4/126)
	C23C	4/124 (modified; symbol renumbered to 4/129)
	C23C	4/125 (symbol renumbered to 4/131)
	C23C	4/126 (new)
	C23C	4/127 (modified; symbol renumbered to 4/134)
	C23C	4/128 (symbol renumbered to 4/137)
	C23C	4/129 (new)
	C23C	4/131 (new)
	C23C	4/134 (new)
	C23C	4/137 (new)
Scheme Note to be added:	C23C	4/12

The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL): B22F

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES
 - A. New, Modified or Deleted Group(s)

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- B. New, Modified or Deleted Warning Notice(s)
 - C. New, Modified or Deleted Note(s)
 - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
- A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS B22F – WORKING METALLIC POWDER; MANUFACTURE OF ARTICLES FROM METALLIC POWDER; MAKING METALLIC POWDER**

<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	B22F3/115	1	by spraying molten metal, i.e. spray sintering, spray casting	

SUBCLASS C23C – COATING METALLIC MATERIAL; COATING MATERIAL WITH METALLIC MATERIAL; SURFACE TREATMENT OF METALLIC MATERIAL BY DIFFUSION INTO THE SURFACE, BY CHEMICAL CONVERSION OR SUBSTITUTION; COATING BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL VAPOUR DEPOSITION, IN GENERAL

<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	C23C4/00	0	Coating by spraying the coating material in the molten state, e.g. by flame, plasma or electric discharge (build-up welding B23K, e.g. B23K5/18, B23K9/04)	
D	C23C4/005	1	{Pattern or selective deposit without pre-treatment of the material to be coated}	<administrative transfer to C23C4/01>
N	C23C4/01	1	Selective coating, e.g. pattern coating, without pre-treatment of the material to be coated	
M	C23C4/06	2	Metallic material	
D	C23C4/065	3	{containing non-metal elements, e.g. C, Si, B, P or As, as free particles}	<administrative transfer to C23C4/067>
N	C23C4/067	3	containing free particles of non-metal elements, e.g. carbon, silicon, boron, phosphorus or arsenic	
D	C23C4/085	4	{MCrAl or MCrAlY type alloys where M = Ni,Co,Fe}	<administrative transfer to C23C4/073>
N	C23C4/073	3	containing MCrAl or MCrAlY alloys, where M is nickel, cobalt or iron, with or without non-metal elements	
M	C23C4/08	3	containing only metal elements (C23C4/073 takes precedence)	

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<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	C23C4/10	2	Oxides, borides, carbides, nitrides or silicides; Mixtures thereof	
D	C23C4/105	3	{Oxides}	<administrative transfer to C23C4/11>
N	C23C4/11	3	Oxides	
U	C23C4/12	1	characterised by the method of spraying	
D	C23C4/121	2	{Spraying molten metal}	<administrative transfer to C23C4/123>
D	C23C4/122	2	{utilising detonation (apparatus for spraying by means of detonations in general B05B7/0006)}	<administrative transfer to C23C4/126>
N	C23C4/123	2	Spraying molten metal	
D	C23C4/124	2	{utilising flame spraying (apparatus for spraying by means of flame in general B05B7/20)}	<administrative transfer to C23C4/129>
D	C23C4/125	2	{utilising wire arc spraying (apparatus for spraying by means of electric arc in general B05B7/22)}	<administrative transfer to C23C4/131>
N	C23C4/126	2	Detonation spraying	
D	C23C4/127	2	{utilising plasma spraying (plasma torches in general H05H1/26, apparatus for spraying by means of electric arc in general B05B7/22)}	<administrative transfer to C23C4/134>
D	C23C4/128	2	{Spraying in vacuum or in an inert gas chamber}	<administrative transfer to C23C4/137>
N	C23C4/129	2	Flame spraying	
N	C23C4/131	2	Wire arc spraying	
N	C23C4/134	2	Plasma spraying	
N	C23C4/137	2	Spraying in vacuum or in an inert atmosphere	
M	C23C4/14	2	for coating elongate material	

*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.

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- 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.
- 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”.

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C. New, Modified or Deleted Note(s)

SUBCLASS C23C – COATING METALLIC MATERIAL; COATING MATERIAL WITH METALLIC MATERIAL; SURFACE TREATMENT OF METALLIC MATERIAL BY DIFFUSION INTO THE SURFACE, BY CHEMICAL CONVERSION OR SUBSTITUTION; COATING BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL VAPOUR DEPOSITION, IN GENERAL

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	C23C4/12	-	In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups should be classified in each of those subgroups.

*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. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol</u> <u>or text</u>	<u>Action; New symbol; New text</u>
B22F3/115	Special rules of classification within this group	C23C4/121	C23C4/123
C23C4/00	References relevant to classification in this group	C23C24/00	C23C24/04
C23C4/005	Definition statement (first sentence)	-	Insert missing period at end of sentence.
C23C4/005	Symbol	-	C23C4/01
C23C4/04	Special rules of classification within this group	C23C4/105	C23C4/11
C23C4/06	References relevant to classification in this group (first row)	MCrAlY type alloys where M=Ni,Co,Fe as coating material	MCrAl(Y) alloys where M is nickel, cobalt or iron as coating material with or without non-metal elements, e.g. silicon.
C23C4/06	References relevant to classification in this group	C23C4/085	C23C4/073
C23C4/06	References relevant to classification in this group (second row)	C23C4/105	C23C4/11
C23C4/08	References relevant to classification in this group	MCrAlY type alloys where M=Ni,Co,Fe as coating material	MCrAl(Y) alloys where M is nickel, cobalt or iron as coating material with or without non-metal elements, e.g. silicon.
C23C4/08	References relevant to classification in this group	C23C4/085	C23C4/073
C23C4/085	Definition statement	alloys (e.g. Si, ...)	alloys, e.g. Si, ..., and/or hard particles.
C23C4/085	Symbol	-	C23C4/073
C23C4/10	References relevant to classification in this group	C23C4/105	C23C4/11
C23C4/105	Symbol	-	C23C4/11
C23C4/12	Special rules of classification within this group	C23C4/121 to C23C4/128	C23C4/123 to C23C4/137
C23C4/121	Symbol	-	C23C4/123
C23C4/122	Symbol	-	C23C4/126
C23C4/124	Symbol	-	C23C4/129
C23C4/125	Symbol	-	C23C4/131
C23C4/127	Symbol	-	C23C4/134
C23C4/128	Symbol	-	C23C4/137

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.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	C23C4/005	<administrative transfer to 4/01>
D	C23C4/065	<administrative transfer to 4/067>
D	C23C4/085	<administrative transfer to 4/073>
D	C23C4/105	<administrative transfer to 4/11>
D	C23C4/121	<administrative transfer to 4/123>
D	C23C4/122	<administrative transfer to 4/126>
D	C23C4/124	<administrative transfer to 4/129>
D	C23C4/125	<administrative transfer to 4/131>
D	C23C4/127	<administrative transfer to 4/134>
D	C23C4/128	<administrative transfer to 4/137>

* 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.

NOTES:

- Only C, D, and Q type entries are included in the table above.
- When multiple symbols are included in the “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”.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C23C 4/005	-	DELETE
C23C 4/01	C23C 4/01	NEW
C23C 4/065	-	DELETE
C23C 4/067	C23C 4/067	NEW
C23C 4/073	C23C 4/073	NEW
C23C 4/085	-	DELETE
C23C 4/105	-	DELETE
C23C 4/11	C23C 4/11	NEW
C23C 4/121	-	DELETE
C23C 4/122	-	DELETE
C23C 4/123	C23C 4/123	NEW
C23C 4/124	-	DELETE
C23C 4/125	-	DELETE
C23C 4/126	C23C 4/126	NEW
C23C 4/127	-	DELETE
C23C 4/128	-	DELETE
C23C 4/129	C23C 4/129	NEW
C23C 4/131	C23C 4/131	NEW
C23C 4/134	C23C 4/134	NEW
C23C 4/137	C23C 4/137	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.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

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5. CROSS-REFERENCE LIST (CRL)

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
C23C6/00	C23C4/121	References relevant to classification in this group	C23C4/123

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.