

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 460

DATE: JANUARY 1, 2018

PROJECT MP0386

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	C23C	subclass
	C23C	2/14, 8/36, 14/00, 14/54, 16/52, 18/00, 20/00, 22/00, 22/77, 24/00, 26/02
DEFINITIONS:		
Definitions New:	C23C	2/14, 14/54, 16/52, 22/77
Definitions Modified:	C23C	8/36, 14/00, 18/00, 22/00, 24/00, 26/02

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 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 (applying liquids or other fluent materials to surfaces in general B05; making metal-coated products by extrusion B21C 23/22; covering with metal by connecting pre-existing layers to articles, see the relevant places, e.g. B21D 39/00, B23K; working of metal by the action of a high concentration of electric current on a workpiece using an electrode B23H; metallising of glass C03C; metallising mortars, concrete, artificial stone, ceramics or natural stone C04B 41/00; paints varnishes, laquers C09D; enamelling of, or applying a vitreous layer to, metals C23D; inhibiting corrosion of metallic material or incrustation in general C23F; single-crystal film growth C30B; manufacture of semiconductor devices H01L; manufacture of printed circuits H05K)

<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	C23C	0	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 (making metal-coated products by extrusion B21C 23/22; covering with metal by connecting pre-existing layers to articles, <u>see</u> the relevant places, e.g. B21D 39/00, B23K; metallising of glass C03C; metallising mortars, concrete, artificial stone, ceramics or natural stone C04B 41/00; enamelling of, or applying a vitreous layer to, metals C23D; treating metal surfaces or coating of metals by electrolysis or electrophoresis C25D; single-crystal film growth C30B; by metallising textiles D06M 11/83; decorating textiles by locally metallising D06Q 1/04)	

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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	C23C 2/14	1	Removing excess of molten coatings; Controlling or regulating the coating thickness	
M	C23C 8/36	2	using ionised gases, e.g. ionitriding	
M	C23C 14/00	0	Coating by vacuum evaporation, by sputtering or by ion implantation of the coating forming material	
M	C23C 14/54	2	Controlling or regulating the coating process	
M	C23C 16/52	2	Controlling or regulating the coating process {(C23C 16/45557, C23C 16/279 take precedence)}	
M	C23C 18/00	0	Chemical coating by decomposition of either liquid compounds or solutions of the coating forming compounds, without leaving reaction products of surface material in the coating; Contact plating	
M	C23C 20/00	0	Chemical coating by decomposition of either solid compounds or suspensions of the coating forming compounds, without leaving reaction products of surface material in the coating	
M	C23C 22/00	0	Chemical surface treatment of metallic material by reaction of the surface with a reactive liquid, leaving reaction products of surface material in the coating, e.g. conversion coatings, passivation of metals	
M	C23C 22/77	2	Controlling or regulating of the coating process	
M	C23C 24/00	0	Coating starting from inorganic powder (spraying of the coating material in molten state C23C 4/00; solid state diffusion C23C8/00 - C23C12/00)	
M	C23C 26/02	1	applying molten material to the substrate	

*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).

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- 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.
 - 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.
- B. 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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2. A. DEFINITIONS (i.e. new)

Insert the following NEW definitions.

C23C2/14

References

Informative references

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

Controlling or regulating thickness in general	G05D5/02
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C23C14/54

References

Informative references

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

Controlling or regulating in general	G05
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C23C16/52

References

Limiting references

This place does not cover:

Pulsed pressure or control pressure	C23C16/45557
Control of diamond crystallography	C23C16/279

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Informative references

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

Controlling or regulating in general	G05
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C23C22/77

References

Informative references

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

Controlling or regulating in general	G05
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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 or text</u>	<u>Action; New symbol; New text</u>
C23C 8/36	Limiting References		Delete the entire Limiting References section and table.
C23C 8/36	Informative References		Add to the Informative References table the following two <u>new</u> rows. Coating by evaporation, sputtering or ion implantation C23C14/00 Chemical vapour deposition C23C16/00
C23C 14/00	Informative References	C30B 23/00 and C30B 25/00	Replace with the following: C30B 23/00 , C30B 25/00
C23C 14/00	Special Rules of Classification	C23C 14/0036-C23C 14/0084: Material in the gas phase is achieved by sputtering and reacted with another gas before or during the coating of the substrate. After-treatment with reactive gas in any form is classified in C23C 14/5846-C23C 14/5866. Note that the sequential processes in C23C 14/0073 and L2 are not considered as after-treatments.	Replace existing text: L2 are With the following <u>new</u> text: C23C14/0078 is
C23C 18/00	Limiting references		Delete the entire Limiting References section and table.
C23C 18/00	Informative references		Add to the Informative References table the following four <u>new</u> rows. Vapour coating through PVD C23C14/00 Vapour coating through CVD C23C16/00 Coating of inorganic material not in molten state, e.g. cold spray, heat or pressure on metallic substrate C23C24/00 Chemical surface reaction C23C8/00 , C23C22/00

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
C23C22/00	Limiting references		Delete the entire Limiting References section and table.
C23C 22/00	Informative References	Reactive Wash primers, e.g. polymers (+ H3PO4, pigments, corrosion inhibitors) C09D 5/12	Delete this existing row from the Informative References table.
C23C 22/00	Informative References		<p>Add to the Informative References table the following <u>new</u> rows.</p> <p>Wash primers C09D 5/12</p> <p>Coating by hot-dipping or immersion in molten material C23C2/00</p> <p>Coating by spraying molten materials, e.g. oxides C23C4/00</p> <p>Diffusion coatings (chemical surface reaction) C23C8/00, C23C10/00, C23C12/00</p> <p>PVD coatings C23C14/00</p> <p>CVD coatings C23C16/00</p> <p>Chemical coating by decomposition C23C18/00, C23C20/00</p> <p>Sol-gel coatings C23C18/12</p> <p>Powder coatings, e.g. by spraying molten material C23C24/00</p> <p>Other coating methods for metallic substrates C23C26/00</p> <p>Multilayer coatings, at least two superposed coatings either by methods not provided for in a single one of groups C23C2/00 to C23C26/00 or by combinations of methods provided for in subclasses C23C and C25C or C25D C23C28/00</p> <p>Coating a metal defined by the composition of the coating rather than the coating process C23C30/00</p> <p>Protection of catalyst by coating B01J33/00</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
			<p>Apparatus for depositing polymeric coatings B05C</p> <p>Processes for applying multilayers from a liquid; Painting B05D7/50</p> <p>Preliminary treatment of areas to be soldered B23K1/20</p> <p>Non-corrosive coatings; primers applied before welding B23K35/226</p> <p>Non-metallic compositions, e.g. coatings of interest in soldering or welding B23K35/36</p> <p>Bonding rubber to metal (mechanical) B29C66/742</p> <p>Laminates, self-supporting layers B32B15/00</p> <p>Chemical or electrical treatment of printing surfaces with a chromium compound, a silicon compound, a phosphorous compound or a compound of a metal group IVB B41N3/038</p> <p>Bonding rubber or polymer to a metal (chemical) C08J5/00</p> <p>Corrosion-inhibiting coatings (anti-corrosive paints, anti-corrosion oils) for metallic material C09D5/08</p> <p>Enamelling of, or applying a vitreous layer to, metals C23D5/00</p> <p>Electrolytic recovery C25C1/00</p> <p>Electrolytic coating C25D3/00, C25D5/00, C25D7/00</p>
C23C 22/00	Informative References	<p>Process for applying monomolecular layers (SAM layers)</p> <p>B05D1/185, G03F7/165, B82B, B82T2201/017, Y01N6/00</p>	<p>Delete the following <u>two</u> symbols from the existing row.</p> <p>B82T2201/017, Y01N6/00</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
C23C 24/00	Limiting references		Add to the Limiting References table the following <u>new</u> row. Solid state diffusion of only non-metal elements into metallic material surfaces C23C 8/00
C23C 26/02	Limiting References		Delete the entire Limiting References section and table.

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.