

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 325

DATE: AUGUST 1, 2017

PROJECT MP0128

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Title wording changes:	C21D	1/00
	C21D	1/55
	C21D	1/64
	C21D	1/74
	C21D	1/82
	C21D	3/00
	C21D	9/00
	C21D	9/04
	C21D	9/14
	C21D	9/44
	C21D	9/68
	C21D	11/00
Definitions modified:	C21D	(subclass)
	C21D	1/00
	C21D	3/00
	C21D	9/00

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 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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CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS C21D -- MODIFYING THE PHYSICAL STRUCTURE OF FERROUS METALS ; GENERAL DEVICES FOR HEAT TREATMENT OF FERROUS OR NON-FERROUS METALS OR ALLOYS; MAKING METAL MALLEABLE BY DECARBURISATION, TEMPERING OR OTHER TREATMENTS (cementation by diffusion processes C23C; surface treatment of metallic material involving at least one process provided for in class C23 and at least one process covered by this subclass, C23F17/00; unidirectional solidification of eutectic materials or unidirectional demixing of eutectoid materials C30B)

<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	C21D1/00	0	General methods or devices for heat treatment, e.g. annealing, hardening, quenching or tempering	
M	C21D1/55	1	Hardenability tests, e.g. end-quench tests	
M	C21D1/64	3	with circulating liquids	
M	C21D1/74	1	Methods of treatment in inert gas, controlled atmosphere, vacuum or pulverulent material	
M	C21D1/82	1	Descaling by thermal stresses (mechanically B21, B23; chemically C23; electrolytically C25F1/00)	
M	C21D3/00	0	Diffusion processes for extraction of non-metals; Furnaces therefor (local protective coatings C21D1/72)	
M	C21D9/00	0	Heat treatment, e.g. annealing, hardening, quenching or tempering, adapted for particular articles; Furnaces therefor	
M	C21D9/04	1	for rails	
M	C21D9/14	2	wear-resistant or pressure-resistant pipes	
M	C21D9/44	1	for equipment for lining mine shafts, e.g. segments, rings or props	
M	C21D9/68	3	Furnace coilers; Hot coilers (cold coilers B21C47/00)	
M	C21D11/00	0	Process control or regulation for heat treatments	

*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.
- 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. 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>
C21D	Limiting references	Mechanical metal-working B21B, B21C, B21J	<u>Delete</u> the entire row.
C21D	Informative references		<u>Insert</u> the following <u>new</u> row: Mechanical metal-working B21B, B21C, B21J
C21D	Limiting references	Working metallic powder, powder metallurgical apparatus or processes B22F, C22C 1/04	<u>Delete</u> the entire row.
C21D	Informative references		<u>Insert</u> the following <u>new</u> row: Working metallic powder, powder metallurgical apparatus or processes B22F, C22C1/04
C21D	Limiting references	Changing the physical structure of non-ferrous metals or alloys C22F	<u>Delete</u> the entire row.
C21D	Informative references		<u>Insert</u> the following <u>new</u> row: Changing the physical structure of non-ferrous metals or alloys C22F
C21D	Limiting references	Surface treatment of metallic material C23, C23F	<u>Replace</u> with the following: Surface treatment of metallic material C23, C23F17/00
C21D	Limiting references	Electrolytic production or refining of metals C25C	<u>Delete</u> the entire row.
C21D	Informative references		<u>Insert</u> the following <u>new</u> row: Electrolytic production or refining of metals C25C
C21D1/00	Limiting references	Rolling of metal B21B	<u>Delete</u> the entire row.
C21D1/00	Informative references		<u>Insert</u> the following <u>new</u> row: Rolling of metal B21B
C21D1/00	Limiting references	Cooling-beds for metal rolling B21B43/00	<u>Delete</u> the entire row.
C21D1/00	Informative references		<u>Insert</u> the following <u>new</u> row: Cooling-beds for metal rolling B21B43/00

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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>
C21D1/00	Limiting references	Manufacture of metal sheets/bars/wires/tubes otherwise than by rolling B21C	Delete the entire row.
C21D1/00	Informative references		Insert the following new row: Manufacture of metal sheets/bars/wires/tubes otherwise than by rolling B21C
C21D1/00	Limiting references	Forging B21J	Delete the entire row.
C21D1/00	Informative references		Insert the following new row: Forging B21J
C21D1/00	Limiting references	Coating material with metallic material, cementation (carburizing, nitriding, etc)/Chemical descaling C23C	Delete the entire row.
C21D1/00	Informative references		Insert the following new row: Coating material with metallic material, cementation (carburizing, nitriding, etc)/Chemical descaling C23C
C21D1/00	Limiting references	Processes for the electrolytic removal of materials from objects C25F	Delete the entire row.
C21D1/00	Informative references		Insert the following new row: Processes for the electrolytic removal of materials from objects C25F
C21D1/00	Informative references	Heat exchange apparatus F28D	Replace with the following: Heat exchange apparatus in which the heat-exchange media do not come into direct contact F28D
C21D3/00	Limiting references	Rolling of metal B21B	Delete the entire row.
C21D3/00	Informative references		Insert the following new row: Rolling of metal B21B
C21D3/00	Limiting references	Manufacture of metal sheets/bars/wires/tubes otherwise than by rolling B21C	Delete the entire row.
C21D3/00	Informative references		Insert the following new row: Manufacture of metal sheets/bars/wires/tubes otherwise than by rolling B21C
C21D3/00	Limiting references	Forging B21J	Delete the entire row.

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C21D3/00	Informative references		<u>Insert</u> the following <u>new</u> row: Forging B21J
C21D3/00	Limiting references	Coating material with metallic material, cementation (carburizing, nitriding, etc)/Chemical descaling C23C	<u>Delete</u> the entire row.
C21D3/00	Informative references		<u>Insert</u> the following <u>new</u> row: Coating material with metallic material, cementation (carburizing, nitriding, etc)/Chemical descaling C23C
C21D3/00	Limiting references	Processes for the electrolytic removal of materials from objects C25F	<u>Delete</u> the entire row.
C21D3/00	Informative references		<u>Insert</u> the following <u>new</u> row: Processes for the electrolytic removal of materials from objects C25F
C21D3/00	Limiting references		<u>Insert</u> the following <u>new</u> row: Local protective coatings C21D1/72
C21D3/00	Informative references	Local protective coatings C21D1/72	<u>Delete</u> the entire row.
C21D9/00	Limiting references	Manufacture of metal sheets/bars/wires/tubes otherwise than by rolling B21C	<u>Delete</u> the entire row.
C21D9/00	Informative references		<u>Insert</u> the following <u>new</u> row: Manufacture of metal sheets/bars/wires/tubes otherwise than by rolling B21C
C21D9/00	Limiting references	Surface treatment of metallic material C23, C23F	<u>Delete</u> the entire row.
C21D9/00	Informative references		<u>Insert</u> the following <u>new</u> row: Surface treatment of metallic material C23, C23F
C21D9/00	Limiting references	Cementation by diffusion processes C23C	<u>Delete</u> the entire row.
C21D9/00	Informative references		<u>Insert</u> the following <u>new</u> row: Cementation by diffusion processes C23C
C21D9/00	Limiting references	Electrolytic production or refining of metals C25C	<u>Delete</u> the entire row.
C21D9/00	Informative references		<u>Insert</u> the following <u>new</u> row: Electrolytic production or refining of metals C25C

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C21D9/00	Limiting references	Single crystals or homogeneous polycrystalline material with defined structure; production thereof C30B	<u>Delete</u> the entire row.
C21D9/00	Informative references		<u>Insert</u> the following <u>new</u> row: Single crystals or homogeneous polycrystalline material with defined structure; production thereof C30B
C21D9/00	Informative references	Working rails, sleepers, baseplates, or the like, in or on the line; Machines, tools, or auxiliary devices specially designed therefor E01B31/18	<u>Replace</u> with the following: Reconditioning or repairing worn or damaged parts on the spot; Heating or cooling of parts on the spot E01B31/18

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.