EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 538

DATE: AUGUST 1, 2018

PROJECT RP0220

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

Action	**Subclass**	**Groups**
SCHEME:		
Symbols New:	C21B	7/205
	C21B	2400/00
	C21B	2400/02
	C21B	2400/022
	C21B	2400/024
	C21B	2400/026
	C21B	2400/028
	C21B	2400/03
	C21B	2400/032
	C21B	2400/034
	C21B	2400/04
	C21B	2400/042
	C21B	2400/044
	C21B	2400/05
	C21B	2400/052
	C21B	2400/054
	C21B	2400/056
	C21B	2400/058
	C21B	2400/06
	C21B	2400/062
	C21B	2400/064
	C21B	2400/066
	C21B	2400/068
	C21B	2400/07
	C21B	2400/072
	C21B	2400/074
	C21B	2400/076
	C21B	2400/08
Warnings New:	C21B	7/20
	C21B	7/205
	C21B	2400/00

The following subclasses/groups are also impacted by this Notice of Changes: F27B

DATE: AUGUST 1, 2018

PROJECT RP0220

This Notice of Changes includes the following:

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

	☒	B.	New 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 C21B- Manufacture of iron or steel

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
C	C21B 3/04	1	Recovery of by-products, e.g. slag	C21B 3/04, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
C	C21B 3/06	2	Treatment of liquid slag (slag wool C03B; slag stones C04B)	C21B 3/06, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
C	C21B 3/08	3	Cooling slag	C21B 3/08, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
C	C21B 3/10	3	Slag pots; Slag cars	C21B 3/10, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08
U	C21B 7/18	1	Bell-and-hopper arrangements	
C	C21B 7/20	2	with appliances for distributing the burden	C21B 7/20, C21B 7/205
N	C21B 7/205	3	{Details concerning the gear-box driving the charge distribution system}	
U	C21B 2300/04	1	Modeling of the process, e.g. for control purposes; CII	
N	C21B 2400/00	0	Treatment of slags originating from iron or steel processes	
N	C21B 2400/02	1	Physical or chemical treatment of slags	
N	C21B 2400/022	2	Methods of cooling or quenching molten slag	
N	C21B 2400/024	3	with the direct use of steam or liquid coolants, e.g. water	
N	C21B 2400/026	3	using air, inert gases or removable conductive bodies	
N	C21B 2400/028	3	with the permanent addition of cooled slag or other solids	
N	C21B 2400/03	2	Removing sulfur	

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
N	C21B 2400/032	2	Separating slag from liquid, e.g. from water, after quenching	
N	C21B 2400/034	2	Stirring or agitating by pressurised fluids or by moving apparatus	
N	C21B 2400/04	1	Specific shape of slag after cooling	
N	C21B 2400/042	2	Sheets	
N	C21B 2400/044	2	Briquettes or moulded bodies other than sheets	
N	C21B 2400/05	1	Apparatus features	
N	C21B 2400/052	2	including rotating parts	
N	C21B 2400/054	3	Disc-shaped or conical parts for cooling, dispersing or atomising of molten slag rotating along vertical axis	
N	C21B 2400/056	3	Drums whereby slag is poured on or in between	
N	C21B 2400/058	3	Rotating beds on which slag is cooled	
N	C21B 2400/06	2	Conveyors on which slag is cooled	
N	C21B 2400/062	2	Jet nozzles or pressurised fluids for cooling, fragmenting or atomising slag	
N	C21B 2400/064	2	Thermally-conductive removable bodies, e.g. balls	
N	C21B 2400/066	2	Receptacle features where the slag is treated	
N	C21B 2400/068	3	with a sealed or controlled environment	
N	C21B 2400/07	3	open to atmosphere	
N	C21B 2400/072	3	Tanks to collect the slag, e.g. water tank	
N	C21B 2400/074	3	Tower structures for cooling, being confined but not sealed	
N	C21B 2400/076	3	Fluidised bed for cooling	
N	C21B 2400/08	1	with energy recovery	

*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.
- 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".

B. New, Modified or Deleted Warning notice(s)

SUBCLASS C21B- Manufacture of iron or steel

Type*	Location	Old Warning notice	New/Modified Warning notice
N	C21B 7/20		Group C21B 7/20 is impacted by reclassification into group C21B 7/205. Groups C21B 7/20 and C21B 7/205 should be considered in order to perform a complete search.
N	C21B 7/205		Group C21B 7/205 is incomplete pending reclassification of documents from group C21B 7/20. Groups C21B 7/205 and C21B 7/20 should be considered in order to perform a complete search.
N	C21B 2400/00		Groups C21B 2400/00 - C21B 2400/08 are incomplete pending reclassification of documents from groups C21B 3/04, C21B 3/06, C21B 3/08, and C21B 3/10. Groups C21B 2400/00 - C21B 2400/08, and groups C21B 3/04, C21B 3/06, C21B 3/08 and C21B 3/10 should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

3.   REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	C21B 3/04	C21B 3/04, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	C21B 3/06	C21B 3/06, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	C21B 3/08	C21B 3/08, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	C21B 3/10	C21B 3/10, C21B 2400/00, C21B 2400/02, C21B 2400/022, C21B 2400/024, C21B 2400/026, C21B 2400/028, C21B 2400/03, C21B 2400/032, C21B 2400/034, C21B 2400/04, C21B 2400/042, C21B 2400/044, C21B 2400/05, C21B 2400/052, C21B 2400/054, C21B 2400/056, C21B 2400/058, C21B 2400/06, C21B 2400/062, C21B 2400/064, C21B 2400/066, C21B 2400/068, C21B 2400/07, C21B 2400/072, C21B 2400/074, C21B 2400/076, C21B 2400/08
C	C21B 7/20	C21B 7/20, C21B 7/205

* 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".

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

CPC	**IPC**	**Action***
C21B 7/205	C21B7/20	NEW
C21B 2400/00	CPC ONLY	NEW
C21B 2400/02	CPC ONLY	NEW
C21B 2400/022	CPC ONLY	NEW
C21B 2400/024	CPC ONLY	NEW
C21B 2400/026	CPC ONLY	NEW
C21B 2400/028	CPC ONLY	NEW
C21B 2400/03	CPC ONLY	NEW
C21B 2400/032	CPC ONLY	NEW
C21B 2400/034	CPC ONLY	NEW
C21B 2400/04	CPC ONLY	NEW
C21B 2400/042	CPC ONLY	NEW
C21B 2400/044	CPC ONLY	NEW
C21B 2400/05	CPC ONLY	NEW
C21B 2400/052	CPC ONLY	NEW
C21B 2400/054	CPC ONLY	NEW
C21B 2400/056	CPC ONLY	NEW
C21B 2400/058	CPC ONLY	NEW
C21B 2400/06	CPC ONLY	NEW
C21B 2400/062	CPC ONLY	NEW
C21B 2400/064	CPC ONLY	NEW
C21B 2400/066	CPC ONLY	NEW
C21B 2400/068	CPC ONLY	NEW
C21B 2400/07	CPC ONLY	NEW
C21B 2400/072	CPC ONLY	NEW
C21B 2400/074	CPC ONLY	NEW
C21B 2400/076	CPC ONLY	NEW
C21B 2400/08	CPC ONLY	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.

5. CROSS-REFERENCE LIST (CRL)

Definitions references impacted by this revision project

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
F27B 1/20	C21B 7/18, C21B 7/20	Limiting references	C21B 7/18, C21B 7/20, C21B 7/205

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.