

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 843

DATE: MAY 1, 2020

PROJECT RP0029

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	E21C	2035/1803, 2035/1806, 2035/1809, 2035/1813, 2035/1816, 2035/182, 2035/1823, 2035/1826, 2035/191, 2035/226
Symbols Deleted Pending Reclassification: (frozen (F))	E21C	41/04, 41/10, 41/14
Symbols New:	E21C	35/1831, 35/1833, 35/1835, 35/1837, 35/184, 35/186, 35/188, 35/191, 35/226
Warnings New:	E21C	41/04, 41/10, 41/14,
Warnings Modified:	E21C	41/00, 41/16, 41/26, 41/32
DEFINITIONS:		
Definitions New:	E21C	35/187

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 E21C - MINING OR QUARRYING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	E21C 2035/1803	2	{Inserts or layers of wear-resistant material}	<administrative transfer to E21C 35/183 INV>
D	E21C 2035/1806	3	{Fixing methods or devices}	<administrative transfer to E21C 35/1831 INV>
D	E21C 2035/1809	3	{Multiple inserts}	<administrative transfer to E21C 35/1833 INV>
D	E21C 2035/1813	3	{Chemical composition or specific material}	<administrative transfer to E21C 35/1835 INV>
D	E21C 2035/1816	3	{characterised by the shape}	<administrative transfer to E21C 35/1837 INV>
D	E21C 2035/182	2	{Reversible picks, i.e. having two working ends, one operating, the other in reserve}	<administrative transfer to E21C 35/184 INV>
D	E21C 2035/1823	2	{using a locking piston actuated hydraulically, e.g. by spraying-fluid pressure}	<administrative transfer to E21C 35/186 INV>
D	E21C 2035/1826	2	{characterised by adaptations to use an extraction tool}	<administrative transfer to E21C 35/188 INV>
T	E21C 35/183	2	with inserts or layers of wear-resistant material{(drill bits with wear-resistant parts E21B 10/46)}	
N	E21C 35/1831	3	{Fixing methods or devices}	
N	E21C 35/1833	3	{Multiple inserts}	
N	E21C 35/1835	3	{Chemical composition or specific material}	
N	E21C 35/1837	3	{characterised by the shape}	
N	E21C 35/184	2	{Reversible picks, i.e. having two working ends, one operating, the other in reserve}	
N	E21C 35/186	2	{using a locking piston actuated hydraulically, e.g. by spraying-fluid pressure}	
U	E21C 35/187	2	with arrangement of fluid-spraying nozzles (supply of fluid to the nozzles E21C 35/22)	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	E21C 35/188	2	{characterised by adaptations to use an extraction tool}	
U	E21C 35/19	2	Means for fixing picks or holders	
N	E21C 35/191	3	{for fixing holders}	
D	E21C 2035/191	3	{for fixing holders}	<administrative transfer to E21C 35/191 INV>
U	E21C 35/223	2	{Equipment associated with mining machines for sucking dust-laden air from the cutting area, with or without cleaning of the air}	
N	E21C 35/226	2	{Control valves for the spraying liquid used in dust suppression systems}	
D	E21C 2035/226	2	{Control valves for the spraying liquid used in dust suppression systems}	<administrative transfer to E21C 35/226 INV>
F	E21C 41/04	1	{for hard coal}	E21C41/00, E21C41/16, E21C41/18, E21C41/20, E21C41/22, E21C41/24, E21C41/26, E21C41/28, E21C41/30, E21C41/31, E21C41/32
F	E21C 41/10	1	{for oil-bearing deposits}	E21C41/00, E21C41/16, E21C41/18, E21C41/20, E21C41/22, E21C41/24, E21C41/26, E21C41/28, E21C41/30, E21C41/31, E21C41/32
F	E21C 41/14	1	{for other specified minerals, e.g. gold, mercury, other heavy metals, sulfur, slate; for clay}	E21C41/00, E21C41/16, E21C41/18, E21C41/20, E21C41/22, E21C41/24, E21C41/26, E21C41/28, E21C41/30, E21C41/31, E21C41/32

*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).
- 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.

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

SUBCLASS E21C - MINING OR QUARRYING

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	E21C 41/00	Groups E21C41/28 to E21C41/14 are no longer used for classification. Documents are reclassified to groups E21C41/16 , E21C41/26 and E21C41/32	<p>Replace existing WARNING with the following text:</p> <p>Group E21C 41/00 is incomplete pending reclassification of documents from groups E21C41/04, E21C 41/10 and E21C 41/14.</p> <p>All the groups listed in this warning should be considered in order to perform a complete search.</p>
N	E21C 41/04		Group E21C41/04 is no longer used for the classification of documents as of February 1, 2020. The content of this group is being reclassified into groups E21C 41/00, E21C41/16- E21C41/32. All the groups listed in this warning should be considered in order to perform a complete search.
N	E21C 41/10		Group E21C41/10 is no longer used for the classification of documents as of February 1, 2020. The content of this group is being reclassified into groups E21C 41/00, E21C41/16- E21C41/32. All the groups listed in this warning should be considered in order to perform a complete search
N	E21C 41/14		Group E21C41/14 is no longer used for the classification of documents as of February 1, 2020. The content of this group is being reclassified into groups E21C 41/00, E21C41/16- E21C41/32. All the groups listed in this warning should be considered in order to perform a complete search
M	E21C 41/16	Group E21C41/16 is incomplete. See Warning after E21C41/00	<p>Replace existing WARNING with the following text:</p> <p>Groups E21C 41/16-E21C 41/24 are incomplete pending reclassification of documents from groups E21C41/04, E21C 41/10 and E21C 41/14.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			All the groups listed in this warning should be considered in order to perform a complete search.
M	E21C 41/26	Group E21C41/26 is incomplete. See Warning after E21C41/00	<p>Replace existing WARNING with the following text:</p> <p>Groups E21C 41/26-E21C 41/31 are incomplete pending reclassification of documents from groups E21C 41/04, E21C 41/10 and E21C 41/14.</p> <p>All the groups listed in this warning should be considered in order to perform a complete search.</p>
M	E21C 41/32	Group E21C41/32 is incomplete, see other groups of E21C41/00	<p>Replace existing WARNING with the following text:</p> <p>Group E21C 41/32 is incomplete pending reclassification of documents from group groups E21C 41/04, E21C 41/10 and E21C 41/14.</p> <p>All the groups listed in this warning should be considered in order to perform a complete search.</p>

*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.

2. A. DEFINITIONS (new)

E21C35/187

References

Informative references

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

supply of fluid to the nozzles	E21C35/22
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Special rules of classification

Looping references between [E21C35/22](#) and [E21C35/187](#) have been identified. Until this inconsistency is resolved in IPC, the current classification practice in CPC is as follows: Reference [E21C35/22](#) is non-limiting in the subgroup [E21C35/187](#).

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	E21C 2035/1803	<administrative transfer to E21C 35/183 INV>
D	E21C 2035/1806	<administrative transfer to E21C 35/1831 INV>
D	E21C 2035/1809	<administrative transfer to E21C 35/1833 INV>
D	E21C 2035/1813	<administrative transfer to E21C 35/1835 INV>
D	E21C 2035/1816	<administrative transfer to E21C 35/1837 INV>
D	E21C 2035/182	<administrative transfer to E21C 35/184 INV>
D	E21C 2035/1823	<administrative transfer to E21C 35/186 INV>
D	E21C 2035/1826	<administrative transfer to E21C 35/188 INV>
D	E21C 2035/191	<administrative transfer to E21C 35/191 INV>
D	E21C 2035/226	<administrative transfer to E21C 35/226 INV>
F	E21C 41/04	E21C 41/00, E21C 41/16, E21C 41/18, E21C 41/20, E21C 41/22, E21C 41/24, E21C 41/26, E21C 41/28, E21C 41/30, E21C 41/31, E21C 41/32
F	E21C 41/10	E21C 41/00, E21C 41/16, E21C 41/18, E21C 41/20, E21C 41/22, E21C 41/24, E21C 41/26, E21C 41/28, E21C 41/30, E21C 41/31, E21C 41/32
F	E21C 41/14	E21C 41/00, E21C 41/16, E21C 41/18, E21C 41/20, E21C 41/22, E21C 41/24, E21C 41/26, E21C 41/28, E21C 41/30, E21C 41/31, E21C 41/32

* 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; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- 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 (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
E21C 2035/1803		DELETE
E21C 2035/1806		DELETE
E21C 2035/1809		DELETE
E21C 2035/1813		DELETE
E21C 2035/1816		DELETE
E21C 2035/182		DELETE
E21C 2035/1823		DELETE
E21C 2035/1826		DELETE
E21C 35/1831	E21C 35/183	NEW
E21C 35/1833	E21C 35/183	NEW
E21C 35/1835	E21C 35/183	NEW
E21C 35/1837	E21C 35/183	NEW
E21C 35/184	E21C 35/18	NEW
E21C 35/186	E21C 35/18	NEW
E21C 35/188	E21C 35/18	NEW
E21C 35/191	E21C 35/19	NEW
E21C 2035/191		DELETE
E21C 35/226	E21C 35/22	NEW
E21C 2035/226		DELETE

*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.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.