

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 784

DAT; JANUARY 1, 2020

PROJECT RP0632

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:	C01F	17/0006, 17/0012, 17/0018, 17/0025, 17/0031, 17/0037, 17/0043, 17/005, 17/0056, 17/0062, 17/0068, 17/0075, 17/0081, 17/0087, 17/0093
Symbols New:	C01F	17/10, 17/13, 17/17, 17/20, 17/206, 17/212, 17/218, 17/224, 17/229, 17/235, 17/241, 17/247, 17/253, 17/259, 17/265, 17/271, 17/276, 17/282, 17/288, 17/294, 17/30, 17/32, 17/34, 17/36, 17/38
Titles Changed:	C01F	17/00
Warnings New:	C01F	17/00, 17/10, 17/13, 17/17, 17/20, 17/206, 17/212, 17/218, 17/224, 17/229, 17/235, 17/241, 17/253, 17/259
Notes Modified:	C01F	17/00
DEFINITIONS:		
Definitions Deleted:	C01F	17/0031, 17/0043

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):

C01P

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)

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5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS C01F - COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RARE-EARTH METALS**

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#
C	C01F17/00	0	Compounds of rare earth metals	C01F17/00, C01F17/20
D	C01F17/0006	1	{Preparation involving a liquid-liquid extraction, an adsorption or an ion exchange}	<administrative transfer to C01F17/10>
D	C01F17/0012	1	{Compounds containing, besides rare earth metals, two or more other elements with the exception of oxygen or hydrogen, e.g. La ₄ S ₃ Br ₆ , or ternary oxides or hydroxides, e.g. NaCeO ₂ }	<administrative transfer to C01F17/30>
D	C01F17/0018	2	{Oxygen being the only anion}	<administrative transfer to C01F17/32>
D	C01F17/0025	3	{Aluminates}	<administrative transfer to C01F17/34>
D	C01F17/0031	2	{Halogen being the only anion (compounds containing besides rare earth metals only different halogens, e.g. ScCl ₂ F C01F 17/0056)}	<administrative transfer to C01F17/36>
D	C01F17/0037	2	{Sulfur being the only anion}	<administrative transfer to C01F17/38>
D	C01F17/0043	1	{Oxides or hydroxides (ternary oxides or hydroxides, e.g. NaCeO ₂ C01F 17/0018)}	<administrative transfer to C01F17/206>
D	C01F17/005	1	{Carbonates}	<administrative transfer to C01F17/247>
D	C01F17/0056	1	{Halides}	<administrative transfer to C01F17/253>
D	C01F17/0062	2	{Fluorides}	<administrative transfer to C01F17/265>
D	C01F17/0068	2	{Chlorides}	<administrative transfer to C01F17/271>
D	C01F17/0075	1	{Nitrates}	<administrative transfer to C01F17/276>
D	C01F17/0081	1	{Sulfates}	<administrative transfer to C01F17/282>
D	C01F17/0087	1	{Sulfides}	<administrative transfer to C01F17/288>
D	C01F17/0093	2	{Oxysulfides}	<administrative transfer to C01F17/294>
Q	C01F17/10	1	Preparation or treatment, e.g. separation or purification	C01F17/10, C01F17/13, C01F17/17
N	C01F17/13	2	by using ion exchange resins, e.g. chelate resins	

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N	C01F17/17	2	involving a liquid-liquid extraction	
N	C01F17/20	1	Compounds containing only rare earth metals as the metal element	
Q	C01F17/206	2	oxide or hydroxide being the only anion	C01F17/206, C01F17/212, C01F17/218, C01F17/224, C01F17/229, C01F17/235, C01F17/241
N	C01F17/212	3	Scandium oxides or hydroxides	
N	C01F17/218	3	Yttrium oxides or hydroxides	
N	C01F17/224	3	Oxides or hydroxides of lanthanides	
N	C01F17/229	4	Lanthanum oxides or hydroxides	
N	C01F17/235	4	Cerium oxides or hydroxides	
N	C01F17/241	3	containing two or more rare earth metals, e.g. NdPrO ₃ or LaNdPrO ₃	
N	C01F17/247	2	Carbonates	
Q	C01F17/253	2	Halides	C01F17/253, C01F17/259
N	C01F17/259	3	Oxyhalides	
N	C01F17/265	3	Fluorides	
N	C01F17/271	3	Chlorides	
N	C01F17/276	2	Nitrates	
N	C01F17/282	2	Sulfates	
N	C01F17/288	2	Sulfides	
N	C01F17/294	3	Oxysulfides	
N	C01F17/30	1	Compounds containing rare earth metals and at least one element other than a rare earth metal, oxygen or hydrogen, e.g. La ₄ S ₃ Br ₆ (C01F17/247-C01F17/294 take precedence)	
N	C01F17/32	2	oxide or hydroxide being the only anion, e.g. NaCeO ₂ or Mg _x Ca _y EuO	
N	C01F17/34	3	Aluminates, e.g. YAlO ₃ or Y _{3-x} Gd _x Al ₅ O ₁₂	
N	C01F17/36	2	halogen being the only anion, e.g. NaYF ₄	
N	C01F17/38	2	sulfur being the only anion, e.g. CaLa ₂ S ₄	

*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.

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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.
- “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>”, “<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 finalization 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 C01F - COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RARE-EARTH METALS**

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	C01F 17/00		Group C01F 17/00 is impacted by reclassification into group C01F 17/20. Groups C01F 17/00 and C01F 17/20 should be considered in order to perform a complete search.
N	C01F 17/10		Group C01F 17/10 is impacted by reclassification into groups C01F 17/13 and C01F 17/17. Groups C01F 17/10, C01F 17/13, and C01F 17/17 should be considered in order to perform a complete search.
N	C01F 17/13		Group C01F 17/13 is incomplete pending reclassification of documents from group C01F 17/10. Groups C01F 17/10 and C01F 17/13 should be considered in order to perform a complete search.
N	C01F 17/17		Group C01F 17/17 is incomplete pending reclassification of documents from group C01F 17/10. Groups C01F 17/10 and C01F 17/17 should be considered in order to perform a complete search.
N	C01F 17/20		Group C01F 17/20 is incomplete pending reclassification of documents from group C01F 17/00. Groups C01F 17/00 and C01F 17/20 should be considered in order to perform a complete search.
N	C01F 17/206		Group C01F 17/206 is impacted by reclassification into groups C01F 17/212, C01F 17/218, C01F 17/224, C01F 17/229, C01F 17/235, and C01F 17/241. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01F 17/212		Group C01F 17/212 is incomplete pending reclassification of documents from group C01F 17/206. Groups C01F 17/206 and C01F 17/212 should be considered in order to perform a complete search.
N	C01F 17/218		Group C01F 17/218 is incomplete pending reclassification of documents from group C01F 17/206. Groups C01F 17/206 and C01F 17/218 should be considered in order to perform a complete search.
N	C01F 17/224		Group C01F 17/224 is incomplete pending reclassification of documents from group C01F 17/206. Groups C01F 17/206 and C01F 17/224 should be considered in order to perform a complete search.
N	C01F 17/229		Group C01F 17/229 is incomplete pending reclassification of documents from group C01F 17/206. Groups C01F 17/206 and C01F 17/229 should be considered in order to perform a complete search.
N	C01F 17/235		Group C01F 17/235 is incomplete pending reclassification of documents from group C01F 17/206. Groups C01F 17/206 and C01F 17/235 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	C01F 17/241		Group C01F 17/241 is incomplete pending reclassification of documents from group C01F 17/206. Groups C01F 17/206 and C01F 17/241 should be considered in order to perform a complete search.
N	C01F 17/253		Group C01F 17/253 is impacted by reclassification into group C01F 17/259. Groups C01F 17/253 and C01F 17/259 should be considered in order to perform a complete search.
N	C01F 17/259		Group C01F 17/259 is incomplete pending reclassification of documents from group C01F 17/253. Groups C01F 17/253 and C01F 17/259 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.

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C. New, Modified or Deleted Note(s)**SUBCLASS C01F - COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RARE-EARTH METALS**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	C01F17/00	1. In this group "rare earth metals" means one single element or a combination of elements taken from the group as specified above	Replace existing Note with the following Note: 1. In this group, the following expression is used with the meaning indicated; "rare earth metals" means elements from the group of the lanthanides as well as scandium or yttrium, taken alone or in combination. 2. When classifying a compound in groups C01F17/20 - C01F17/38, then its specific preparation or treatment must also be classified in groups C01F17/10 - C01F17/17 as long as the compound is characterised by its preparation or treatment and <u>vice versa</u> .

*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 or text</u>	<u>Action; New symbol; New text</u>
C01F17/0031	Full definition		Delete
C01F17/0043	Full definition		Delete

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)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	C01F17/00	C01F17/00, C01F17/20
D	C01F17/0006	<administrative transfer to C01F17/10>
D	C01F17/0012	<administrative transfer to C01F17/30>
D	C01F17/0018	<administrative transfer to C01F17/32>
D	C01F17/0025	<administrative transfer to C01F17/34>
D	C01F17/0031	<administrative transfer to C01F17/36>
D	C01F17/0037	<administrative transfer to C01F17/38>
D	C01F17/0043	<administrative transfer to C01F17/206>
D	C01F17/005	<administrative transfer to C01F17/247>
D	C01F17/0056	<administrative transfer to C01F17/253>
D	C01F17/0062	<administrative transfer to C01F17/265>
D	C01F17/0068	<administrative transfer to C01F17/271>
D	C01F17/0075	<administrative transfer to C01F17/276>
D	C01F17/0081	<administrative transfer to C01F17/282>
D	C01F17/0087	<administrative transfer to C01F17/288>
D	C01F17/0093	<administrative transfer to C01F17/294>
Q	C01F17/10	C01F17/10, C01F17/13, C01F17/17
Q	C01F17/206	C01F17/206, C01F17/212, C01F17/218, C01F17/224, C01F17/229, C01F17/235, C01F17/241
Q	C01F17/253	C01F17/253, C01F17/259

* 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".

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- 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 finalization projects.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C01F17/0006		DELETE
C01F17/0012		DELETE
C01F17/0018		DELETE
C01F17/0025		DELETE
C01F17/0031		DELETE
C01F17/0037		DELETE
C01F17/0043		DELETE
C01F17/005		DELETE
C01F17/0056		DELETE
C01F17/0062		DELETE
C01F17/0068		DELETE
C01F17/0075		DELETE
C01F17/0081		DELETE
C01F17/0087		DELETE
C01F17/0093		DELETE
C01F17/10	C01F 17/10	NEW
C01F17/13	C01F 17/13	NEW
C01F17/17	C01F 17/17	NEW
C01F17/20	C01F 17/20	NEW
C01F17/206	C01F 17/206	NEW
C01F17/212	C01F 17/212	NEW
C01F17/218	C01F 17/218	NEW
C01F17/224	C01F 17/224	NEW
C01F17/229	C01F 17/229	NEW
C01F17/235	C01F 17/235	NEW
C01F17/241	C01F 17/241	NEW
C01F17/247	C01F 17/247	NEW
C01F17/253	C01F 17/253	NEW
C01F17/259	C01F 17/259	NEW
C01F17/265	C01F 17/265	NEW
C01F17/271	C01F 17/271	NEW

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C01F17/276	C01F 17/276	NEW
C01F17/282	C01F 17/282	NEW
C01F17/288	C01F 17/288	NEW
C01F17/294	C01F 17/294	NEW
C01F17/30	C01F 17/30	NEW
C01F17/32	C01F 17/32	NEW
C01F17/34	C01F 17/34	NEW
C01F17/36	C01F 17/36	NEW
C01F17/38	C01F 17/38	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 CACL table above.
- E and M symbols are not included in the CACL 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>
C01P	C01F17/0012-C01F17/0093	Definition Statement	Replace C01F17/0012-C01F17/0093 with C01F17/10-C01F17/38

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.