

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1224

DATE: JANUARY 1, 2022

PROJECT RP0734

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	7/001, 7/002, 7/004, 7/005, 7/007, 7/008
Symbols New:	C01F	7/57, 7/77, 7/78, 7/782, 7/784, 7/785, 7/786, 7/788
Titles Changed:	C01F	7/021, 7/022, 7/023, 7/025, 7/026, 7/027, 7/028, 7/04, 7/043, 7/046, 7/06, 7/0606, 7/0613, 7/062, 7/0626, 7/0633, 7/064, 7/0646, 7/0653, 7/066, 7/0666, 7/0673, 7/068, 7/0686, 7/0693, 7/08, 7/085, 7/141, 7/142, 7/144, 7/145, 7/147, 7/148, 7/16, 7/162, 7/164, 7/166, 7/168, 7/18, 7/20, 7/22, 7/30, 7/302, 7/304, 7/306, 7/308, 7/32, 7/422, 7/424, 7/426, 7/428, 7/44, 7/441, 7/442, 7/444, 7/445, 7/447, 7/448, 7/46, 7/47, 7/473, 7/476, 7/48, 7/52, 7/66, 7/68, 7/741, 7/743, 7/745, 7/746, 7/748, 7/76, 7/762, 7/765, 7/767
Warnings New:	C01F	7/56, 7/57, 7/78, 7/782, 7/784
DEFINITIONS:		
Definitions New:	C01F	7/78, 7/785, 7/786
Definitions Modified:	C01F	Subclass
	C01F	7/00, 7/02, 7/021, 7/06, 7/16, 7/302, 7/36,

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): B01J, C01B, C01P

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)

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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 C01F - COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RAREEARTH METALS (metal hydrides {monoborane, diborane or addition complexes thereof} C01B 6/00; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; sulfides or polysulfides of magnesium, calcium, strontium, or barium C01B 17/42; thiosulfates, dithionites, polythionates C01B 17/64; compounds containing selenium or tellurium C01B 19/00; binary compounds of nitrogen with metals C01B 21/06; azides C01B 21/08; {compounds other than ammonia or cyanogen containing nitrogen and non-metals and optionally metals C01B 21/082; amides or imides of silicon C01B 21/087}; metal {imides or} amides C01B 21/092, {C01B 21/0923}; nitrites C01B 21/50; {compounds of noble gases C01B 23/0005}; phosphides C01B 25/08; salts of oxyacids of phosphorus C01B 25/16; carbides C01B 32/90; compounds containing silicon C01B 33/00; compounds containing boron C01B 35/00; compounds having molecular sieve properties but not having base-exchange properties C01B 37/00; compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites, C01B 39/00; cyanides C01C 3/08; salts of cyanic acid C01C 3/14; salts of cyanamide C01C 3/16; thiocyanates C01C 3/20; {double sulfates of magnesium with sodium or potassium C01D 5/12; with other alkali metals C01D 15/00, C01D 17/00})

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
D	C01F 7/001	1	{Aluminium carbonate}	< administrative transfer to C01F 7/77 >
D	C01F 7/002	1	{Compounds containing, besides aluminium, two or more other elements, with the exception of oxygen and hydrogen (compounds containing aluminium, fluorine and alkali or alkaline earth metals C01F 7/54; compounds containing sulfur and other cations besides aluminium C01F 7/68)}	< administrative transfer to C01F 7/78 >
D	C01F 7/004	2	{containing carbonate ions, e.g. dawsonite }	< administrative transfer to C01F 7/782 >
D	C01F 7/005	3	{Hydrotalcite}	< administrative transfer to C01F 7/785 >
D	C01F 7/007	2	{containing, besides aluminium, only anions, e.g. Al(OH) _x CL _y (SO ₄) _z (mixed halides C01F 7/48)}	< administrative transfer to C01F 7/786 >
D	C01F 7/008	2	{Ammonium aluminium fluorides }	< administrative transfer to C01F 7/788 >
M	C01F 7/021	2	After-treatment of oxides or hydroxides	
M	C01F 7/022	3	Classification	
M	C01F 7/023	3	Grinding, deagglomeration or disintegration	
M	C01F 7/025	3	Granulation or agglomeration	
M	C01F 7/026	3	Making or stabilising dispersions	
M	C01F 7/027	3	Treatment involving fusion or vaporisation	

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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>
M	C01F 7/028	2	Beta-aluminas	
M	C01F 7/04	2	Preparation of alkali metal aluminates; Aluminium oxide or hydroxide therefrom (C01F 7/028 takes precedence)	
M	C01F 7/043	3	Lithium aluminates	
M	C01F 7/046	3	Stabilisation of aluminates	
M	C01F 7/06	3	by treating aluminous minerals or waste-like raw materials with alkali hydroxide, e.g. leaching of bauxite according to the Bayer process (obtaining aluminium oxide or hydroxide from the resulting aluminate solution C01F 7/14)	
M	C01F 7/0606	4	Making-up the alkali hydroxide solution from recycled spent liquor	
M	C01F 7/0613	4	Pretreatment of the minerals, e.g. grinding	
M	C01F 7/062	4	Digestion	
M	C01F 7/0626	5	Processes making use of tube digestion only	
M	C01F 7/0633	5	characterised by the use of additives	
M	C01F 7/064	5	Apparatus for digestion, e.g. digester vessels or heat exchangers	
M	C01F 7/0646	4	Separation of the insoluble residue, e.g. of red mud	
M	C01F 7/0653	5	characterised by the flocculant added to the slurry (final clarification of the aluminate solution C01F 7/47)	
M	C01F 7/066	4	Treatment of the separated residue	
M	C01F 7/0666	4	Process control or regulation	
M	C01F 7/0673	4	from phosphate-containing minerals	
M	C01F 7/068	4	from carbonate-containing minerals, e.g. dawsonite	
M	C01F 7/0686	4	from sulfate-containing minerals, e.g. alunite	
M	C01F 7/0693	4	from waste-like raw materials, e.g. fly ash or Bayer calcination dust	
M	C01F 7/08	3	by treating aluminous minerals with sodium carbonate, e.g. sinter processes (C01F 7/0613, C01F 7/066 take precedence)	
M	C01F 7/085	4	according to the lime-sinter process	
M	C01F 7/141	4	from aqueous aluminate solutions by neutralisation with an acidic agent	
M	C01F 7/142	5	with carbon dioxide	
M	C01F 7/144	4	from aqueous aluminate solutions by precipitation due to cooling, e.g. as part of the Bayer process	

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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#
M	C01F 7/145	5	characterised by the use of a crystal growth modifying agent other than aluminium hydroxide seed	
M	C01F 7/147	5	Apparatus for precipitation	
M	C01F 7/148	5	Separation of the obtained hydroxide, e.g. by filtration or dewatering	
M	C01F 7/16	2	Preparation of alkaline-earth metal aluminates or magnesium aluminates; Aluminium oxide or hydroxide therefrom (C01F 7/028 takes precedence)	
M	C01F 7/162	3	Magnesium aluminates	
M	C01F 7/164	3	Calcium aluminates	
M	C01F 7/166	3	Strontium aluminates	
M	C01F 7/168	3	Barium aluminates	
M	C01F 7/18	3	Aluminium oxide or hydroxide from alkaline earth metal aluminates	
M	C01F 7/20	2	Preparation of aluminium oxide or hydroxide from aluminous ores using acids or salts	
M	C01F 7/22	3	with halides or halogen acids	
M	C01F 7/30	2	Preparation of aluminium oxide or hydroxide by thermal decomposition or by hydrolysis or oxidation of aluminium compounds	
M	C01F 7/302	3	Hydrolysis or oxidation of gaseous aluminium compounds in the gaseous phase	
M	C01F 7/304	4	of organic aluminium compounds	
M	C01F 7/306	3	Thermal decomposition of hydrated chlorides, e.g. of aluminium trichloride hexahydrate	
M	C01F 7/308	3	Thermal decomposition of nitrates	
M	C01F 7/32	3	Thermal decomposition of sulfates including complex sulfates, e.g. alums	
M	C01F 7/422	3	by oxidation with a gaseous oxidator at a high temperature	
M	C01F 7/424	4	using a plasma	
M	C01F 7/426	3	by applying mechanical energy to solid aluminium at a low temperature	
M	C01F 7/428	3	by oxidation in an aqueous solution	
M	C01F 7/44	2	Dehydration of aluminium oxide or hydroxide, i.e. all conversions of one form into another involving a loss of water	
M	C01F 7/441	3	by calcination	
M	C01F 7/442	4	in presence of a calcination additive	
M	C01F 7/444	4	Apparatus therefor	
M	C01F 7/445	4	making use of a fluidised bed	
M	C01F 7/447	3	by wet processes	

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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#
M	C01F 7/448	4	using superatmospheric pressure, e.g. hydrothermal conversion of gibbsite into boehmite	
M	C01F 7/46	2	Purification of aluminium oxide, aluminium hydroxide or aluminates (C01F 7/028 takes precedence)	
M	C01F 7/47	3	of aluminates, e.g. removal of compounds of Si, Fe, Ga or of organic compounds from Bayer process liquors	
M	C01F 7/473	4	Removal of organic compounds, e.g. sodium oxalate	
M	C01F 7/476	5	by oxidation	
M	C01F 7/48	1	Halides, with or without other cations besides aluminium	
U	C01F 7/50	2	Fluorides	
M	C01F 7/52	3	Double compounds containing both fluorine and other halide groups	
C	C01F 7/56	2	Chlorides (containing fluorine C01F 7/52)	C01F 7/56, C01F 7/57
N	C01F 7/57	3	Basic aluminium chlorides, e.g. polyaluminium chlorides	
M	C01F 7/66	1	Nitrates, with or without other cations besides aluminium	
M	C01F 7/68	1	Aluminium compounds containing sulfur	
M	C01F 7/741	3	Preparation from elemental aluminium or elemental aluminium containing materials, e.g. foil or dross	
M	C01F 7/743	3	Preparation from silicoaluminous materials, e.g. clays or bauxite	
M	C01F 7/745	3	Preparation from alums, e.g. alunite	
M	C01F 7/746	3	After-treatment, e.g. dehydration or stabilisation	
M	C01F 7/748	4	Purification	
M	C01F 7/76	3	Double salts, i.e. compounds containing, besides aluminium and sulfate ions, only other cations, e.g. alums	
M	C01F 7/762	4	Ammonium or alkali metal aluminium sulfates	
M	C01F 7/765	5	Ammonium aluminium sulfates	
M	C01F 7/767	4	Alkaline earth metal aluminium sulfates	
N	C01F 7/77	1	Aluminium carbonates	
Q	C01F 7/78	1	Compounds containing aluminium and two or more other elements, with the exception of oxygen and hydrogen (aluminates C01F 7/02; compounds containing aluminium, fluorine and alkali or alkaline earth metals C01F 7/54; nitrates containing other cations besides aluminium C01F 7/66; sulfides,	C01F 7/78, C01F 7/784

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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>
			sulfites or sulfates containing other cations besides aluminium C01F 7/70-C01F 7/74)	
Q	C01F 7/782	2	containing carbonate ions, e.g. dawsonite	C01F 7/782, C01F 7/784
N	C01F 7/784	2	Layered double hydroxide, e.g. comprising nitrate, sulfate or carbonate ions as intercalating anions	
N	C01F 7/785	3	Hydrotalcite	
N	C01F 7/786	2	containing, besides aluminium, only anions, e.g. Al[OH] _x Cl _y [SO ₄] _z (mixed halides C01F 7/48)	
N	C01F 7/788	2	Ammonium aluminium fluorides, e.g. ammonium hexafluoroaluminate	

*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.
- 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 C01F - COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RAREEARTH METALS (metal hydrides {monoborane, diborane or addition complexes thereof} C01B 6/00; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; sulfides or polysulfides of magnesium, calcium, strontium, or barium C01B 17/42; thiosulfates, dithionites, polythionates C01B 17/64; compounds containing selenium or tellurium C01B 19/00; binary compounds of nitrogen with metals C01B 21/06; azides C01B 21/08; {compounds other than ammonia or cyanogen containing nitrogen and non-metals and optionally metals C01B 21/082; amides or imides of silicon C01B 21/087}; metal {imides or} amides C01B 21/092, {C01B 21/0923}; nitrites C01B 21/50; {compounds of noble gases C01B 23/0005}; phosphides C01B 25/08; salts of oxyacids of phosphorus C01B 25/16; carbides C01B 32/90; compounds containing silicon C01B 33/00; compounds containing boron C01B 35/00; compounds having molecular sieve properties but not having base-exchange properties C01B 37/00; compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites, C01B 39/00; cyanides C01C 3/08; salts of cyanic acid C01C 3/14; salts of cyanamide C01C 3/16; thiocyanates C01C 3/20; {double sulfates of magnesium with sodium or potassium C01D 5/12; with other alkali metals C01D 15/00, C01D 17/00})

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	C01F 7/56		Group C01F 7/56 is impacted by reclassification into group C01F 7/57. Groups C01F 7/56 and C01F 7/57 should be considered in order to perform a complete search.
N	C01F 7/57		Group C01F 7/57 is incomplete pending reclassification of documents from group C01F 7/56. Groups C01F 7/56 and C01F 7/57 should be considered in order to perform a complete search.
N	C01F 7/78		Group C01F 7/78 is impacted by reclassification into group C01F 7/784. Groups C01F 7/78 and C01F 7/784 should be considered in order to perform a complete search.
N	C01F 7/782		Group C01F 7/782 is impacted by reclassification into group C01F 7/784. Groups C01F 7/782 and C01F 7/784 should be considered in order to perform a complete search.
N	C01F 7/784		Group C01F 7/784 is incomplete pending reclassification of documents from groups C01F 7/78 and C01F 7/782. Groups C01F 7/78, C01F 7/782 and C01F 7/784 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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2. A. DEFINITIONS (new)

Insert: The following new Definitions.

C01F 7/78

Definition statement

This place covers:

Compounds containing aluminium and two or more other elements, with the exception of oxygen and hydrogen are classified in this group.

References

Limiting references

This place does not cover:

Aluminates	C01F 7/02
Compounds containing aluminium, fluorine and alkali or alkaline earth metals	C01F 7/54
Nitrates containing other cations besides aluminium	C01F 7/66
Sulfides, sulfites or sulfates containing other cations besides aluminium	C01F 7/70-C01F 7/74

C01F 7/785

Definition statement

This place covers:

Hydrotalcite $\text{Mg}_6\text{Al}_2\text{CO}_3(\text{OH})_{16}\cdot 4(\text{H}_2\text{O})$ is classified in this group.

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C01F 7/786

Definition statement

This place covers:

Compounds comprising besides aluminium only anions, thereby not taken into account.

References

Limiting references

This place does not cover:

Mixed halides	C01F 7/48
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2. A. DEFINITIONS (modified)

C01F

Definition statement

Replace: The existing Definition statement text with the following updated text.

Compounds of beryllium, e.g. fluorides, oxides, hydroxides.

Compounds of magnesium, e.g. magnesia, hydroxide, carbonates, halides, nitrates, sulfates, sulfites.

Compounds of aluminium, e.g. carbonate, oxides, hydroxides, alkali metal aluminates, halides, nitrates, sulfides, sulfites, sulfates.

Compounds of calcium, strontium or barium, e.g. oxides, hydroxides, carbonates, halides, nitrates, sulfates, sulfites.

Compounds of radium.

Compounds of thorium.

Compounds of the rare earth metals, i.e. scandium, yttrium, lanthanum, lanthanides.

Synthesis, treatment or modification of any of the elements or compounds above by:

- chemical means, i.e. chemical reaction;
- physical means, e.g. concentration, dehydration, purification, separation, solidifying;
- addition of a stabilizer or preservative; or
- the combination of chemical and physical means, with the proviso that the resultant product is proper for classification in this subclass.

Forming shaped metal compounds covered by C01F and the shaped products, per se, e.g. granules.

All compounds of Be, Mg, Al, Ca, Sr, Ba, Ra, Th or rare earth metals except those compounds which are classified in C01G because of application of the last

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appropriate place rule. So, in principle does this subclass comprise all Al-compounds with elements as such being part of C01B-C01D, e.g. Al_2O_3 , $\text{Al}(\text{NO}_3)_3$, Al_2S_3 .

Relationships with other classification places

Replace: The existing Relationships with other classification places text with the following updated text.

In Class C01, in the absence of an indication to the contrary, a compound is classified in the last appropriate subclass of this class. For example, lead oxide is classified in subclass C01G rather than in this subclass.

This subclass is a function oriented entry for the chemical elements and their compounds and does not cover the application or use of the elements and compounds under the subclass definition. For classifying such information other entries in IPC exist, for example:

- Compounds or compositions for preservation of the bodies of humans, animals, plants, or parts thereof, e.g. disinfectants, pesticides, herbicides, as pest repellents or attractants, and as plant growth regulators are classified in A01N.
- Preparations for medical, dental, or toilet purposes are classified in A61K.

Ammonium salts of complex acids (other than complex cyanides) containing a metal in the anion are covered by the relevant groups of this subclass or subclasses C01D and C01G, according to the metal.

Complex ammine salts are classified in the relevant groups of this subclass, or subclasses C01D and C01G, according to the metal.

Salts, adducts, or complexes formed between an inorganic compound of this subclass and an organic compound of class C07, are regarded as organic compounds and classified in class C07.

When a process produces multiple compounds only those which are intended or desired require classification and classification may be proper in multiple subclasses.

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MULTIPLE CLASSIFICATION

Biocidal, pest attractant, or plant growth regulatory activity of chemical compounds or preparations is further classified in A01P.

Therapeutic activity of chemical compounds or medicinal preparations is further classified in A61P.

Uses of cosmetics or similar toilet preparations are further classified in A61Q.

References***Limiting references***

Replace: The text in the existing Limiting references table with the following updated text.

Metal hydrides, monoborane, diborane or addition complexes thereof	C01B 6/00
Salts of oxyacids of halogens	C01B 11/00
Peroxides, salts of peroxyacids	C01B 15/00
Sulfides or polysulfides of magnesium, calcium, strontium, or barium	C01B 17/42
Thiosulfates, dithionites, polythionates	C01B 17/64
Compounds containing selenium or tellurium	C01B 19/00
Binary compounds of nitrogen with metals	C01B 21/06
Azides	C01B 21/08
Compounds other than ammonia or cyanogen containing nitrogen and non-metals and optionally metals	C01B 21/082
Amides or imides of silicon	C01B 21/087

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Metal imides or amides	C01B 21/092, C01B 21/0923
Nitrites	C01B 21/50
Compounds of noble gases	C01B 23/0005
Phosphides	C01B 25/08
Salts of oxyacids of phosphorus	C01B 25/16
Carbides	C01B 32/90
Compounds containing silicon	C01B 33/00
Compounds containing boron	C01B 35/00
Compounds having molecular sieve properties but not having base-exchange properties	C01B 37/00
Compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites	C01B 39/00
Cyanides	C01C 3/08
Salts of cyanic acid	C01C 3/14
Salts of cyanamide	C01C 3/16
Thiocyanates	C01C 3/20
Double sulfates of magnesium with sodium or potassium	C01D 5/12
Double sulfates of magnesium with lithium	C01D 15/06
Double sulfates of magnesium with rubidium, caesium or francium	C01D 17/00
Production of lime, magnesia or dolomite	C04B 2/00
Burning, calcining lime, magnesite or dolomite	C04B 2/10
Dehydration of gypsum for calcium sulfate cements	C04B 11/02
Preparation of elements or inorganic compounds except carbon dioxide by using microorganisms or enzymes	C12P 3/00

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Obtaining metal compounds from mixtures in a metallurgical process	C22B
Production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis	C25B

Delete: In the “Limiting references”, the table labeled “Preparation of inorganic compounds in general”

Informative references

Replace: The text in the existing Informative references table with the following updated text.

Crystallisation	B01D 9/00
Calcination	B01J 6/00
Catalysts	B01J 23/00, B01J 27/00, B01J 31/00
General methods of preparing halides	C01B 9/00
Methods for preparing oxides or hydroxides in general	C01B 13/14
Methods for preparing sulfides or polysulfides in general	C01B 17/20
Methods of preparing sulfites in general	C01B 17/62
Methods for the preparation of sulfates in general	C01B 17/96
Methods for the preparation of nitrates in general	C01B 21/48
Preparation of carbonates or bicarbonates in general	C01B 32/60
Methods of preparing ammonium salts in general	C01C 1/28
Shaped ceramic products characterised by their composition	C04B 35/00

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Use of inorganic ingredients, e.g. oxygen-containing compounds, e.g. metal carbonyls	C08K 3/18
Treatment of specific inorganic compounds of alkaline earth metals or magnesium, other than fibrous fillers	C09C 1/02
Macroscopic single crystals:	C30B

Special rules of classification

Replace: The text in the existing Special rules of classification section with the following updated text.

- In this subclass, in the absence of an indication to the contrary, a compound or a process of making a compound appropriate for this subclass is classified in the last appropriate place.
- In this subclass, tradenames that are often found in scientific and patent literature have been used to define precisely the scope of the groups.
- This subclass provides for products which are intended or desired. When a process produces multiple compounds only those which are intended or desired require a classification. However, by-products can be given an additional classification if they or the processes for obtaining them are considered of interest for search.
- Inorganic salts of a compound, unless specifically provided for elsewhere, are classified as that compound.
- Compounds comprising in addition to Al, two or more elements (H and O not counted) are classified in [C01F 7/78-C01F 7/788](#).

C01F 7/00

Delete: The entire "Definition statement" section.

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Synonyms and Keywords

Replace: The term “Aluminium” with “aluminium”.

In patent documents the following synonyms are often used:

aluminium, aluminum

C01F 7/02

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Organic compounds containing aluminium	C07F 5/06
--	---------------------------

Glossary of terms

Replace: The term “Aluminium” with “aluminium” in the first row of the Glossary of terms table.

aluminium oxide or hydroxide	aluminium oxide (all polymorphs, e.g. alpha, gamma), hydroxide or (oxy)hydroxide
------------------------------	--

C01F 7/021

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

(After-)Treatments of aluminium (hydr)oxides in order to improve their pigmenting or filling properties	C09C 1/407
---	----------------------------

C01F 7/06

Definition statement

Replace: The text in the existing Definition statement with the following updated text.

Treatments of bauxite according to the Bayer process insofar it relates to the pretreatment and digestion of the ore and separation of the red mud. Also included is the recovery of the spent liquor cycle stream.

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References

Limiting references

Replace: All of the references in the existing “Limiting references” table with the following updated reference.

Obtaining aluminium oxide or hydroxide from the resulting alkali metal aluminate solution	C01F 7/14
---	-----------

C01F 7/16

Definition statement

Replace: The text in the existing Definition statement with the following updated text.

Compounds in which some of the phases are qualified as having the spinel structure.

References

Limiting references

Replace: The text in the existing Limiting references table with the following updated text.

Beta-aluminas	C01F 7/028
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Synonyms and Keywords

Replace: The text in the existing “Synonyms and Keywords” section with the following updated text.

Spinel	Alkaline earth metal aluminate, (MgAl ₂ O ₄)
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C01F 7/302

Definition statement

Replace: The text in the existing Definition statement with the following updated text.

Hydrolysis or oxidation of gaseous aluminium compounds in the gas phase, e.g. the oxidation of aluminium chloride in the gas phase.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

The conversion of hydrated aluminium chloride by heating in the gas phase (i.e. thermal decomposition)	C01F 7/306
--	----------------------------

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C01F 7/36

Special rules of classification

Replace: The text in the existing Special rules of classification section with the following updated text.

The preparation of aluminum hydroxides $\text{Al}(\text{OH})_3$ from salts other than organic salts (like aluminium sulfate or nitrate) is classified in C01F 7/34.

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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	C01F 7/001	< administrative transfer to C01F 7/77 >
D	C01F 7/002	< administrative transfer to C01F 7/78 >
D	C01F 7/004	< administrative transfer to C01F 7/782 >
D	C01F 7/005	< administrative transfer to C01F 7/785 >
D	C01F 7/007	< administrative transfer to C01F 7/786 >
D	C01F 7/008	< administrative transfer to C01F 7/788 >
C	C01F 7/56	C01F 7/56, C01F 7/57
Q	C01F 7/78	C01F 7/78, C01F 7/784
Q	C01F 7/782	C01F 7/782, C01F 7/784

* 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>
C01F 7/001		DELETE
C01F 7/002		DELETE
C01F 7/004		DELETE
C01F 7/005		DELETE
C01F 7/007		DELETE
C01F 7/008		DELETE
C01F 7/021	C01F 7/021	UPDATE
C01F 7/022	C01F 7/022	UPDATE
C01F 7/023	C01F 7/023	UPDATE
C01F 7/025	C01F 7/025	UPDATE
C01F 7/026	C01F 7/026	UPDATE
C01F 7/027	C01F 7/027	UPDATE
C01F 7/028	C01F 7/028	UPDATE
C01F 7/043	C01F 7/043	UPDATE
C01F 7/046	C01F 7/046	UPDATE
C01F 7/0606	C01F 7/0606	UPDATE
C01F 7/0613	C01F 7/0613	UPDATE
C01F 7/062	C01F 7/062	UPDATE
C01F 7/0626	C01F 7/0626	UPDATE
C01F 7/0633	C01F 7/0633	UPDATE
C01F 7/064	C01F 7/064	UPDATE
C01F 7/0646	C01F 7/0646	UPDATE
C01F 7/0653	C01F 7/0653	UPDATE
C01F 7/066	C01F 7/066	UPDATE
C01F 7/0666	C01F 7/0666	UPDATE
C01F 7/0673	C01F 7/0673	UPDATE
C01F 7/068	C01F 7/068	UPDATE
C01F 7/0686	C01F 7/0686	UPDATE
C01F 7/0693	C01F 7/0693	UPDATE
C01F 7/085	C01F 7/085	UPDATE
C01F 7/141	C01F 7/141	UPDATE
C01F 7/142	C01F 7/142	UPDATE
C01F 7/144	C01F 7/144	UPDATE
C01F 7/145	C01F 7/145	UPDATE
C01F 7/147	C01F 7/147	UPDATE
C01F 7/148	C01F 7/148	UPDATE
C01F 7/162	C01F 7/162	UPDATE
C01F 7/164	C01F 7/164	UPDATE
C01F 7/166	C01F 7/166	UPDATE
C01F 7/168	C01F 7/168	UPDATE
C01F 7/302	C01F 7/302	UPDATE
C01F 7/304	C01F 7/304	UPDATE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C01F 7/306	C01F 7/306	UPDATE
C01F 7/308	C01F 7/308	UPDATE
C01F 7/422	C01F 7/422	UPDATE
C01F 7/424	C01F 7/424	UPDATE
C01F 7/426	C01F 7/426	UPDATE
C01F 7/428	C01F 7/428	UPDATE
C01F 7/441	C01F 7/441	UPDATE
C01F 7/442	C01F 7/442	UPDATE
C01F 7/444	C01F 7/444	UPDATE
C01F 7/445	C01F 7/445	UPDATE
C01F 7/447	C01F 7/447	UPDATE
C01F 7/448	C01F 7/448	UPDATE
C01F 7/473	C01F 7/473	UPDATE
C01F 7/476	C01F 7/476	UPDATE
C01F 7/57	C01F 7/57	NEW
C01F 7/741	C01F 7/741	UPDATE
C01F 7/743	C01F 7/743	UPDATE
C01F 7/745	C01F 7/745	UPDATE
C01F 7/746	C01F 7/746	UPDATE
C01F 7/748	C01F 7/748	UPDATE
C01F 7/762	C01F 7/762	UPDATE
C01F 7/765	C01F 7/765	UPDATE
C01F 7/767	C01F 7/767	UPDATE
C01F 7/77	C01F 7/77	NEW
C01F 7/78	C01F 7/78	NEW
C01F 7/782	C01F 7/782	NEW
C01F 7/784	C01F 7/784	NEW
C01F 7/785	C01F 7/785	NEW
C01F 7/786	C01F 7/786	NEW
C01F 7/788	C01F 7/788	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.
- T and M symbols are not included in the CICL 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>
B01J23/007	C01F7/005	Informative references	C01F 7/785
B01J27/236	C01F7/005	Informative references	C01F 7/785
C01B33/38	C01F7/005	Limiting references	C01F 7/785
C01P	C01F7/001 - C07F 7/046	Definition statement	C01F 7/02 – C01F7/046, C01F 7/77 – C01F 7/788

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.