EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1697

DATE: JANUARY 1, 2025

PROJECT RP12344

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

Action	**Subclass**	**Group(s)**
SCHEME:		
Symbols Deleted:	C01G	45/003, 45/006
	C01G	51/003, 51/006, 51/12, 51/30
	C01G	53/003, 53/006
Symbols New:	C01G	45/01, 45/022, 45/024, 45/026, 45/028, 45/03, 45/05, 45/07, 45/20, 45/22, 45/24
	C01G	51/01, 51/05, 51/15, 51/20, 51/80, 51/82, 51/84
	C01G	53/01, 53/05, 53/502, 53/504, 53/506, 53/51, 53/80, 53/82, 53/84
Titles Changed:	C01F	7/78
	C01G	3/006
	C01G	5/006
	C01G	7/006
	C01G	9/006
	C01G	11/006
	C01G	13/006
	C01G	15/006
	C01G	17/006
	C01G	19/006
	C01G	21/006
	C01G	23/002
	C01G	25/006
	C01G	27/006
	C01G	28/002
	C01G	29/006
	C01G	30/002
	C01G	31/006
	C01G	33/006
	C01G	35/006
	C01G	37/006
	C01G	39/006
	C01G	41/006
	C01G	43/006
	C01G	45/02, 45/06, 45/12, 45/1207, 45/1214, 45/1221, 45/1228, 45/1235, 45/1242, 45/125, 45/1257, 45/1264, 45/1271, 45/1278, 45/1285, 45/1292
	C01G	47/006
	C01G	49/009

Action	**Subclass**	**Group(s)**
	C01G	51/04, 51/08, 51/085, 51/40, 51/42, 51/44, 51/50, 51/52, 51/54, 51/56, 51/58, 51/60, 51/62, 51/64, 51/66, 51/68, 51/70
	C01G	53/04, 53/08, 53/09, 53/11, 53/40, 53/42, 53/44, 53/50, 53/52, 53/54, 53/56, 53/58, 53/60, 53/62, 53/64, 53/66, 53/68, 53/70
	C01G	55/002
	C01G	56/003
	C01G	99/006
Warnings New:	C01G	45/00, 45/02, 45/022, 45/024, 45/026, 45/028, 45/03, 45/05, 45/06, 45/07, 45/20, 45/22, 45/24
	C01G	51/00, 51/04, 51/05, 51/08, 51/15, 51/80, 51/82, 51/84
	C01G	53/00, 53/04, 53/05, 53/08, 53/11, 53/50, 53/502, 53/51, 53/80, 53/82, 53/84
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	C01G	45/003, 45/006
	C01G	51/003, 51/006, 51/12, 51/30
	C01G	53/003, 53/006
Definitions New:	C01G	45/01, 45/22
	C01G	51/01, 51/15, 51/20, 51/82
	C01G	53/01, 53/82
Definitions Modified:	C01G	Subclass
	C01G	1/00
	C01G	3/00, 3/003, 3/04
	C01G	5/00, 5/003
	C01G	7/00, 7/003, 7/006
	C01G	9/00, 9/003
	C01G	11/00, 11/003
	C01G	13/00, 13/003
	C01G	15/003
	C01G	17/003
	C01G	19/00, 19/003
	C01G	21/00, 21/003, 21/06
	C01G	23/00, 23/001, 23/007, 23/008
	C01G	25/003
	C01G	27/003
	C01G	28/001, 28/002, 28/005, 28/007, 28/008, 28/02
	C01G	29/003
	C01G	30/001, 30/002, 30/004, 30/006, 30/008, 30/02
	C01G	31/003

CPC NOTICE OF CHANGES 1697

DATE: JANUARY 1, 2025

PROJECT RP12344

Action	**Subclass**	**Group(s)**
	C01G	33/003
	C01G	35/003
	C01G	37/003
	C01G	39/003
	C01G	41/003
	C01G	43/003
	C01G	45/12
	C01G	47/003
	C01G	49/0009, 49/02, 49/10, 49/12, 49/14, 49/16
	C01G	51/04, 51/40, 51/70
	C01G	53/40, 53/70
	C01G	55/00, 55/001, 55/002
	C01G	56/001, 56/003, 56/004, 56/007
	C01G	99/003, 99/006

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, C04B2235/3268*

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)

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#
M	C01F7/78	1	Compounds containing aluminium, with or without oxygen or hydrogen, and containing two or more other elements (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)	

SUBCLASS C01G - COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES C01D OR C01F

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	C01G3/006	1	{Compounds containing copper, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G5/006	1	{Compounds containing silver, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G7/006	1	{Compounds containing gold, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G9/006	1	{Compounds containing zinc, with or without oxygen or hydrogen, and containing two or more other elements}	

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	C01G11/006	1	{Compounds containing cadmium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G13/006	1	{Compounds containing mercury, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G15/006	1	{Compounds containing gallium, indium or thallium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G17/006	1	{Compounds containing germanium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G19/006	1	{Compounds containing tin, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G21/006	1	{Compounds containing lead, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G23/002	1	{Compounds containing titanium, with or without oxygen or hydrogen, and containing two or more other elements (C01G 23/001, C01G 23/003 take precedence)}	
M	C01G25/006	1	{Compounds containing zirconium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G27/006	1	{Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G28/002	1	{Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)}	
M	C01G29/006	1	{Compounds containing bismuth, with or without oxygen or hydrogen, and containing two or more other elements}	

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	C01G30/002	1	{Compounds containing antimony, with or without oxygen or hydrogen, and containing two or more other elements (C01G 30/001 takes precedence)}	
M	C01G31/006	1	{Compounds containing vanadium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G33/006	1	{Compounds containing niobium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G35/006	1	{Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G37/006	1	{Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G39/006	1	{Compounds containing molybdenum, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G41/006	1	{Compounds containing tungsten, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G43/006	1	{Compounds containing uranium, with or without oxygen or hydrogen, and containing two or more other elements}	
C	C01G45/00	0	Compounds of manganese	C01G45/00, C01G45/03, C01G45/05, C01G45/20, C01G45/22, C01G45/24
D	C01G45/003	1	{Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	<administrative transfer to C01G45/01>
D	C01G45/006	1	{Compounds containing, besides manganese, two or more other elements, with the exception of oxygen or hydrogen (manganates, manganites or permanganates C01G45/12)}	<administrative transfer to C01G45/22>

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#
N	C01G45/01	1	Preparation or separation involving a liquid-liquid extraction, an adsorption or an ion-exchange	
C	C01G45/02	1	Oxides	C01G45/02, C01G45/022, C01G45/024, C01G45/026, C01G45/028, C01G45/03
N	C01G45/022	2	Manganese monoxide	
N	C01G45/024	2	Manganese dioxide	
N	C01G45/026	2	Dimanganese trioxide	
N	C01G45/028	2	Trimanganese tetraoxide	
N	C01G45/03	1	Hydroxides; Oxyhydroxides	
U	C01G45/04	1	Carbonyls	
N	C01G45/05	1	Carbonates	
C	C01G45/06	1	Halides; Oxyhalides	C01G45/06, C01G45/07
N	C01G45/07	2	Chlorides; Oxychlorides	
U	C01G45/08	1	Nitrates	
U	C01G45/10	1	Sulfates	
M	C01G45/12	1	Complex oxides containing manganese and at least one other metal element	
M	C01G45/1207	2	Permanganates [$(MnO_4)^-$] or manganates [$(MnO_4)^{2-}$]	
M	C01G45/1214	3	containing alkali metals	
M	C01G45/1221	2	Manganates or manganites with trivalent manganese, tetravalent manganese or mixtures thereof	
M	C01G45/1228	3	of the type $(MnO_2)^-$, e.g. $LiMnO_2$ or $Li(M_xMn_{1-x})O_2$	
M	C01G45/1235	3	of the type $(Mn_2O_4)^{2-}$, e.g. $Li_2Mn_2O_4$ or $Li_2(M_xMn_{2-x})O_4$	
M	C01G45/1242	3	of the type $(Mn_2O_4)^-$, e.g. $LiMn_2O_4$ or $Li(M_xMn_{2-x})O_4$	
M	C01G45/125	3	of the type $(MnO_3)^{n-}$, e.g. $CaMnO_3$	
M	C01G45/1257	4	containing lithium, e.g. Li_2MnO_3 or $Li_2(M_xMn_{1-x})O_3$	
M	C01G45/1264	4	containing rare earths, e.g. $(La_{1-x}Ca_x)MnO_3$ or $LaMnO_3$	
M	C01G45/1271	3	{of the type $(Mn_2O_8)^{n-}$, e.g. $(LaSr_3)Mn_2O_8$}	
M	C01G45/1278	3	{of the type $(Mn_2O_7)^{n-}$, e.g. $(Sr_{2-x}Nd_x)Mn_2O_7$ or $Tl_2Mn_2O_7$}	
M	C01G45/1285	3	{of the type $(Mn_2O_5)^{n-}$}	

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	C01G45/1292	3	{of the type $(Mn_5O_{12})^{n-}$}	
N	C01G45/20	1	Compounds containing manganese, with or without oxygen or hydrogen, and containing one or more other elements (C01G 45/04 - C01G 45/12 take precedence)	
Q	C01G45/22	2	Compounds containing manganese, with or without oxygen or hydrogen, and containing two or more other elements	C01G45/22, C01G45/24
N	C01G45/24	2	Hydroxides	
M	C01G47/006	1	{Compounds containing rhenium, with or without oxygen or hydrogen, and containing two or more other elements}	
M	C01G49/009	1	{Compounds containing iron, with or without oxygen or hydrogen, and containing two or more other elements}	
C	C01G51/00	0	Compounds of cobalt	C01G51/00, C01G51/05, C01G51/08, C01G51/085, C01G51/15, C01G51/80, C01G51/82, C01G51/84
D	C01G51/003	1	{Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	<administrative transfer to C01G51/01>
D	C01G51/006	1	{Compounds containing, besides cobalt, two or more other elements, with the exception of oxygen or hydrogen (cobaltates C01G51/40)}	<administrative transfer to C01G51/82>
N	C01G51/01	1	Preparation or separation involving a liquid-liquid extraction, an adsorption or an ion-exchange	
U	C01G51/02	1	Carbonyls	
C	C01G51/04	1	Oxides	C01G51/04, C01G51/05
N	C01G51/05	1	Hydroxides; Oxyhydroxides	
U	C01G51/06	1	Carbonates	
T	C01G51/08	1	Halides; Oxyhalides	
T	C01G51/085	2	{Chlorides; Oxychlorides}	
U	C01G51/10	1	Sulfates	
D	C01G51/12	1	Complexes with ammonia	<administrative transfer to C01G51/20>
N	C01G51/15	1	Sulfides; Oxysulfides	
N	C01G51/20	1	Complexes with ammonia	

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	C01G51/30	1	{Sulfides}	<administrative transfer to C01G51/15>
M	C01G51/40	1	Complex oxides containing cobalt and at least one other metal element	
M	C01G51/42	2	containing alkali metals, e.g. $LiCoO_2$	
M	C01G51/44	3	containing manganese	
M	C01G51/50	4	of the type $(MnO_2)^{n-}$, e.g. $Li(Co_xMn_{1-x})O_2$ or $Li(M_yCo_xMn_{1-x-y})O_2$	
M	C01G51/52	4	of the type $(Mn_2O_4)^{2-}$, e.g. $Li_2(Co_xMn_{2-x})O_4$ or $Li_2(M_yCo_xMn_{2-x-y})O_4$	
M	C01G51/54	4	of the type $(Mn_2O_4)^{-}$, e.g. $Li(Co_xMn_{2-x})O_4$ or $Li(M_yCo_xMn_{2-x-y})O_4$	
M	C01G51/56	4	of the type $(MnO_3)^{2-}$, e.g. $Li_2(Co_xMn_{1-x})O_3$ or $Li_2(M_yCo_xMn_{1-x-y})O_3$	
M	C01G51/58	4	{of the type $(Mn_2O_8)^{n-}$}	
M	C01G51/60	4	{of the type $(Mn_2O_7)^{n-}$}	
M	C01G51/62	4	{of the type $(Mn_2O_5)^{n-}$}	
M	C01G51/64	4	{of the type $(Mn_5O_{12})^{n-}$}	
M	C01G51/66	2	containing alkaline earth metals, e.g. $SrCoO_3$	
M	C01G51/68	3	containing rare earths, e.g. $(La_{0.3}Sr_{0.7})CoO_3$	
M	C01G51/70	2	containing rare earths, e.g. $LaCoO_3$ (C01G51/68 takes precedence)	
N	C01G51/80	1	Compounds containing cobalt, with or without oxygen or hydrogen, and containing one or more other elements (C01G 51/02, C01G 51/06 - C01G 51/40 take precedence)	
Q	C01G51/82	2	Compounds containing cobalt, with or without oxygen or hydrogen, and containing two or more other elements	C01G51/82, C01G51/84
N	C01G51/84	2	Hydroxides	
C	C01G53/00	0	Compounds of nickel	C01G53/00, C01G53/05, C01G53/08, C01G53/09, C01G53/11, C01G53/80, C01G53/82, C01G53/84

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	C01G53/003	1	{Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	<administrative transfer to C01G53/01>
D	C01G53/006	1	{Compounds containing, besides nickel, two or more other elements, with the exception of oxygen or hydrogen (nickelates C01G53/40)}	<administrative transfer to C01G53/82>
N	C01G53/01	1	Preparation or separation involving a liquid-liquid extraction, an adsorption or an ion-exchange	
U	C01G53/02	1	Carbonyls	
C	C01G53/04	1	Oxides	C01G53/04, C01G53/05
N	C01G53/05	1	Hydroxides; Oxyhydroxides	
U	C01G53/06	1	Carbonates	
T	C01G53/08	1	Halides; Oxyhalides	
T	C01G53/09	2	Chlorides; Oxychlorides	
U	C01G53/10	1	Sulfates	
T	C01G53/11	1	Sulfides; Oxysulfides	
U	C01G53/12	1	Complexes with ammonia	
M	C01G53/40	1	Complex oxides containing nickel and at least one other metal element	
M	C01G53/42	2	containing alkali metals, e.g. $LiNiO_2$	
M	C01G53/44	3	containing manganese	
C	C01G53/50	4	of the type $(MnO_2)^{n-}$, e.g. $Li(Ni_xMn_{1-x})O_2$ or $Li(M_yNi_xMn_{1-x-y})O_2$	C01G53/50, C01G53/502, C01G53/504, C01G53/506, C01G53/51
N	C01G53/502	5	containing lithium and cobalt	
N	C01G53/504	6	with the molar ratio of nickel with respect to all the metals other than alkali metals higher than or equal to 0.5, e.g. $Li(M_zNi_xCo_yMn_{1-x-y-z})O_2$ with $x \geq 0.5$	
N	C01G53/506	7	with the molar ratio of nickel with respect to all the metals other than alkali metals higher than or equal to 0.8, e.g. $Li(M_zNi_xCo_yMn_{1-x-y-z})O_2$ with $x \geq 0.8$	
N	C01G53/51	5	containing sodium	
M	C01G53/52	4	of the type $(Mn_2O_4)^{2-}$, e.g. $Li_2(Ni_xMn_{2-x})O_4$ or $Li_2(M_yNi_xMn_{2-x-y})O_4$	
M	C01G53/54	4	of the type $(Mn_2O_4)^{-}$, e.g. $Li(Ni_xMn_{2-x})O_4$ or $Li(M_yNi_xMn_{2-x-y})O_4$	

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	C01G53/56	4	of the type $(MnO_3)^{2-}$, e.g. $Li_2(Ni_xMn_{1-x})O_3$ or $Li_2(M_yNi_xMn_{1-x-y})O_3$	
M	C01G53/58	4	{of the type $(Mn_2O_8)^{n-}$}	
M	C01G53/60	4	{of the type $(Mn_2O_7)^{n-}$}	
M	C01G53/62	4	{of the type $(Mn_2O_5)^{n-}$}	
M	C01G53/64	4	{of the type $(Mn_5O_{12})^{n-}$}	
M	C01G53/66	2	containing alkaline earth metals, e.g. $SrNiO_3$ or $SrNiO_2$	
M	C01G53/68	3	containing rare earths, e.g. $(La_{1.62}Sr_{0.38})NiO_4$	
M	C01G53/70	2	containing rare earths, e.g. $LaNiO_3$ (C01G53/68 takes precedence)	
N	C01G53/80	1	Compounds containing nickel, with or without oxygen or hydrogen, and containing one or more other elements (C01G 53/02, C01G 53/06 - C01G 53/40 take precedence)	
Q	C01G53/82	2	Compounds containing nickel, with or without oxygen or hydrogen, and containing two or more other elements	C01G53/82, C01G53/84
N	C01G53/84	2	Hydroxides	
M	C01G55/002	1	{Compounds containing ruthenium, rhodium, palladium, osmium, iridium or platinum, with or without oxygen or hydrogen, and containing two or more other elements (C01G 55/007 takes precedence)}	
M	C01G56/003	1	{Compounds containing transuranic elements, with or without oxygen or hydrogen, and containing two or more other elements (C01G 56/001 takes precedence)}	
M	C01G99/006	1	{Compounds containing a metal not provided for elsewhere in this subclass, with or without oxygen or hydrogen, and containing two or more other elements (C01G 99/003 takes precedence)}	

*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 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.

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

SUBCLASS C01G - COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES C01D OR C01F

Type*	Location	Old Warning notice	New/Modified Warning
N	C01G45/00		Group C01G 45/00 is impacted by reclassification into groups C01G 45/03, C01G 45/05, C01G 45/20, C01G 45/22 and C01G 45/24. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/02		Group C01G 45/02 is impacted by reclassification into groups C01G 45/022, C01G 45/024, C01G 45/026, C01G 45/028 and C01G 45/03. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/022		Group C01G 45/022 is incomplete pending reclassification of documents from group C01G 45/02. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/024		Group C01G 45/024 is incomplete pending reclassification of documents from group C01G 45/02. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/026		Group C01G 45/026 is incomplete pending reclassification of documents from group C01G 45/02. All groups listed in this Warning should be considered in order to perform a complete search.

Type*	Location	Old Warning notice	New/Modified Warning
N	C01G45/028		Group C01G 45/028 is incomplete pending reclassification of documents from group C01G 45/02. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/03		Group C01G 45/03 is incomplete pending reclassification of documents from groups C01G 45/00 and C01G 45/02. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/05		Group C01G 45/05 is incomplete pending reclassification of documents from group C01G 45/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/06		Group C01G 45/06 is impacted by reclassification into group C01G 45/07. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/07		Group C01G 45/07 is incomplete pending reclassification of documents from group C01G 45/06. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/20		Group C01G 45/20 is incomplete pending reclassification of documents from group C01G 45/00. All groups listed in this Warning should be considered in order to perform a complete search.

Type*	Location	Old Warning notice	New/Modified Warning
N	C01G45/22		Group C01G 45/22 is incomplete pending reclassification of documents from group C01G 45/00. Group C01G 45/22 is also impacted by reclassification into group C01G 45/24. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G45/24		Group C01G 45/24 is incomplete pending reclassification of documents from groups C01G 45/00 and C01G 45/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G51/00		Group C01G 51/00 is impacted by reclassification into groups C01G 51/05, C01G 51/08, C01G 51/085, C01G 51/15, C01G 51/80, C01G 51/82 and C01G 51/84. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G51/04		Group C01G 51/04 is impacted by reclassification into group C01G 51/05. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G51/05		Group C01G 51/05 is incomplete pending reclassification of documents from groups C01G 51/00 and C01G 51/04. All groups listed in this Warning should be considered in order to perform a complete search.

Type*	Location	Old Warning notice	New/Modified Warning
N	C01G51/08		Groups C01G 51/08 and C01G 51/085 are incomplete pending reclassification of documents from group C01G 51/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G51/15		Group C01G 51/15 is incomplete pending reclassification of documents from group C01G 51/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G51/80		Group C01G 51/80 is incomplete pending reclassification of documents from group C01G 51/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G51/82		Group C01G 51/82 is incomplete pending reclassification of documents from group C01G 51/00. Group C01G 51/82 is also impacted by reclassification into group C01G 51/84. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G51/84		Group C01G 51/84 is incomplete pending reclassification of documents from groups C01G 51/00 and C01G 51/82. All groups listed in this Warning should be considered in order to perform a complete search.

Type*	Location	Old Warning notice	New/Modified Warning
N	C01G53/00		Group C01G 53/00 is impacted by reclassification into groups C01G 53/05, C01G 53/08, C01G 53/09, C01G 53/11, C01G 53/80, C01G 53/82 and C01G 53/84. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/04		Group C01G 53/04 is impacted by reclassification into group C01G 53/05. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/05		Group C01G 53/05 is incomplete pending reclassification of documents from groups C01G 53/00 and C01G 53/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/08		Groups C01G 53/08 and C01G 53/09 are incomplete pending reclassification of documents from group C01G 53/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/11		Group C01G 53/11 is incomplete pending reclassification of documents from group C01G 53/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/50		Group C01G 53/50 is impacted by reclassification into groups C01G 53/502, C01G 53/504, C01G 53/506 and C01G 53/51. All groups listed in this Warning should be considered in order to perform a complete search.

Type*	Location	Old Warning notice	New/Modified Warning
N	C01G53/502		Groups C01G 53/502, C01G 53/504 and C01G 53/506 are incomplete pending reclassification of documents from group C01G 53/50. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/51		Group C01G 53/51 is incomplete pending reclassification of documents from group C01G 53/50. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/80		Group C01G 53/80 is incomplete pending reclassification of documents from group C01G 53/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/82		Group C01G 53/82 is incomplete pending reclassification of documents from group C01G 53/00. Group C01G 53/82 is also impacted by reclassification into group C01G 53/84. All groups listed in this Warning should be considered in order to perform a complete search.
N	C01G53/84		Group C01G 53/84 is incomplete pending reclassification of documents from groups C01G 53/00 and C01G 53/82. All groups listed in this Warning 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.

2. A. Definitions (new)

C01G 45/01

References

Informative references

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

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

Special rules of classification

The C01P-Indexation scheme shall be applied.

C01G 45/22

References

Informative references

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

Complex oxides containing manganese and at least one other metal element	C01G45/12

Special rules of classification

This group has been completely indexed according to the C01P-Indexation scheme.
The C01P-Indexation scheme shall be applied.

C01G 51/01

References

Informative references

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

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

Special rules of classification

The C01P-Indexation scheme shall be applied.

C01G 51/15

Definition statement

This place covers:

Compounds comprising an anion like S^{2-}(sulfide), or $[S_n]^{2-}$ (polysulfide).

Special rules of classification

The C01P-Indexation scheme shall be applied.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

cobalt sulfide	chemical compounds with a formula Co_xS_y. Well-characterized species include minerals with the formula CoS_2 (cattierite) and Co_3S_4, (Linnaeite) and the synthetic material Co_9S_8.

C01G51/20

Definition statement

This place covers:

Compounds such as hexaamminecobalt(III) chloride (other names cobalt hexammine chloride, hexaamminecobalt(III) chloride): $[Co(NH_3)_6]Cl_3$.

Special rules of classification

The C01P-Indexation scheme shall be applied.

C01G51/82

References

Informative references

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

Complex oxides containing cobalt and at least one other metal element	C01G51/40

Special rules of classification

This group has been completely indexed according to the C01P-Indexation scheme. The C01P-Indexation scheme shall be applied.

C01G53/01

References

Informative references

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

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

Special rules of classification

The C01P-Indexation scheme shall be applied.

C01G53/82

References

Informative references

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

Complex oxides containing nickel and at least one other metal element	C01G53/40

Special rules of classification

This group has been completely indexed according to the C01P-Indexation scheme.
The C01P-Indexation scheme shall be applied.

2. A. Definitions (modified)

C01G

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

Definition statement

This place covers:

Inorganic compounds or salts containing metals like Cu, Ag, Au, Zn, Cd, Hg, Ga, In, Tl, Ge, Sn, Pb, Ti, Zr, Hf, As, Bi, Sb, V, Nb, Ta, Cr, Mo, W, U, Mn, Re, Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt and the transuranic elements (Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr).

References

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

Limiting references

This place does not cover:

Metal hydrides, monoborane, diborane or addition complexes thereof	C01B6/00
Salts of oxyacids of halogens	C01B11/00
Peroxides, salts of peroxyacids	C01B15/00
Thiosulfates, dithionites, polythionates	C01B17/64
Compounds containing selenium or tellurium	C01B19/00
Binary compounds of nitrogen with metals	C01B21/06
Azides	C01B21/08

Compounds other than ammonia or cyanogen containing nitrogen and non-metals and optionally metals	C01B21/082
Metal imides or amides	C01B21/092
Nitrites	C01B21/50
Compounds of noble gases	C01B23/0005
Phosphides	C01B25/08
Salts of oxyacids of phosphorus	C01B25/16
Carbides	C01B32/90
Compounds containing silicon	C01B33/00
Compounds containing boron	C01B35/00
Compounds having molecular sieve properties but not having base-exchange properties	C01B37/00
Compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites	C01B39/00
Cyanides	C01C3/08
Salts of cyanamide	C01C3/16
Thiocyanates	C01C3/20

Insert: The following nine new references in the Informative references table.

Informative references

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

Sulfides or polysulfides of magnesium, calcium, strontium or barium	C01B17/42
Amides or imides of silicon	C01B21/087

Salts of cyanic acid	C01C3/14
Double sulfates of magnesium with sodium or potassium	C01D5/12
Lithium compounds	C01D15/00
Rubidium, caesium or francium compounds	C01D17/00
Metallurgy of iron	C21
Metallurgy, ferrous or non-ferrous alloys	C22
Treatment of ores	C22B

Replace: The existing Special rules text with the following updated text.

Special rules of classification

The physical properties of the specific compounds of metals are indexed according to the C01P-Indexing code scheme.

In case a group is indicated as indexed, the subgroups thereof are also indexed.

The C01P-Indexation scheme deals with structural and physical aspects of solid inorganic compounds classified in subclasses C01B - C01G and C09C. These aspects include crystal-structural characteristics, particle morphology and physical properties.

Exception from the last appropriate place rule:

Dopant: A dopant, also called a doping agent, is a trace impurity element that is inserted into a substance (in very low concentrations) in order to alter the physical properties of the substance. For the purpose of classification, a dopant is considered as such when its concentration is less than 5% (wt, vol, at.) or when mentioned as such in the patent document to be classified.

In such a case, the compound is classified ignoring the dopant(s) and the last appropriate place rule does not apply in view of the dopant(s). In case of doubts, the document is given the class relating to the last appropriate place rule by taking into account the dopant(s) and in the appropriate class, without taking into account the dopant(s).

C01G1/00

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

Definition statement

This place covers:

All methods, i.e. solid state, wet (precipitation, co-precipitaion) and gaseous (flame pyrolysis) methods for preparing compounds of metals not classified in the other C01G1/02 - C01G1/14 groups (last appropriate place rule has to be applied).

References

Delete: The entire Informative references section.

Replace: The existing Special rules text with the following updated text.

Special rules of classification

Specific examples are classified also according to the last appropriate rule in the suitable C01G subclass. Physical properties of the specific compounds of metals are indexed according the C01P-Indexing code scheme.

The C01P-Indexation scheme deals with structural and physical aspects of solid inorganic compounds classified in subclasses C01B - C01G and C09C. These aspects include crystal-structural characteristics, particle morphology and physical properties.

C01G3/00

References

Delete: The entire Limiting references section.

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

Informative references

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

Metallic copper fillers or pigments	C09C1/627
Copper alloys	C09C1/66
Metallurgy of iron	C21
Metallurgy, ferrous or non-ferrous alloys	C22

C01G3/003

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

Definition statement

This place covers:

Use of ion exchange techniques or extraction techniques.

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G3/04

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:

Chlorides	C01G3/05
Oxychlorides	C01G3/06

C01G5/00

References

Delete: The entire Limiting references section.

Insert: The following two new references in the Informative references table.

Informative references

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

Metallurgy of iron	C21
Metallurgy, ferrous or non-ferrous alloys	C22

C01G5/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G7/00

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:

Metallurgy of iron	C21
Ferrous or non-ferrous alloys	C22

C01G7/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G7/006

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:

Metallurgy of iron	C21
Ferrous or non-ferrous alloys	C22

C01G9/00

References

Delete: The entire Limiting references section.

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

Informative references

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

Treatment of Zn-compounds for use as a pigment or filler	C09C1/00
Luminescent materials	C09K11/00
Metallurgy of iron	C21
Ferrous or non-ferrous alloys	C22
Semiconductor devices sensitive to infrared radiation, light, electromagnetic radiation of shorter wavelength or corpuscular radiation and specially adapted either for the conversion of the energy of such radiation into electrical energy or for the control of electrical energy by such radiation	H10F

C01G9/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G11/00

References

Delete: The entire Limiting references section.

Insert: The following two new references in the Informative references table.

Informative references

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

Metallurgy of iron	C21
Ferrous or non-ferrous alloys	C22

Replace: The existing Glossary of terms table text with the following updated text.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

copper(II) sulfate	blue vitriol, bluestone, Salzburg vitriol

C01G11/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G13/00

References

Delete: The entire Limiting references section.

Insert: The following two new references in the Informative references section.

Informative references

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

Metallurgy of iron	C21
Ferrous or non-ferrous alloys	C22

Replace: The existing Glossary of terms table with the following updated table.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

HgS	cinnabar, vermillion

C01G13/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G15/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G17/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G19/00

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:

Metallurgy of iron	C21
Ferrous or non-ferrous alloys	C22

C01G19/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G21/00

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:

Metallurgy of iron	C21
Ferrous or non-ferrous alloys	C22

C01G21/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G21/06

References

Replace: The third-row reference symbol with the following updated symbol.

Informative references

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

Pigments and fillers	C09C1/14

Replace: The existing Glossary of terms table with the following updated table.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

lead monoxide, lead(II) oxide	litharge, massicot, plumbous oxide

C01G23/00

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation of Ti-compounds from ores or scraps	C22B 34/12

C01G23/001

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G23/007

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange	C01G23/001

Replace: The existing Synonyms and Keywords text with the following updated text.

Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- "Titanium(II) Sulfide", "titanium monosulfide" or "Wassonite"

C01G23/008

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange	C01G23/001

C01G25/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G27/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G28/001

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G28/002

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G28/001

C01G28/005

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G28/001

C01G28/007

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G28/001

C01G28/008

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G28/001

C01G28/02

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G28/001

Replace: The existing Glossary of terms text with the following updated text.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

arsenite	chemical compound containing an arsenic oxoanion where arsenic has oxidation state +3. The different forms of the anion are ortho-arsenite $[AsO_3]^{3-}$ and meta-arsenite $[AsO_2]$. Examples of arsenites include sodium arsenite which contains a polymeric linear anion, $[AsO_2^-]n$, and silver arsenite, Ag_3AsO_3, which contains the trigonal, AsO_3^{3-} anion.
arsenate $[AsO_4]^{3-}$	arsenate (compound) is any compound that contains this ion. Arsenates are salts or esters of arsenic acid. The arsenic atom in arsenate has a valency of 5 and is also known as pentavalent arsenic or As[V].

C01G29/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G30/001

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G30/002

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G30/001

C01G30/004

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G30/001

C01G30/006

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G30/001

C01G30/008

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G30/001

C01G30/02

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange	C01G30/001

Replace: The existing Glossary of terms text with the following updated text.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

antimonate, antimonite ions	antimonate ion is $[Sb(OH)_6]^-$ where antimony is present in its +5 oxidation state; antimonite refers to salts of antimony(III), such as $NaSb(OH)_4$ and $NaSbO_2$ (metaantimonite). These are formally salts of antimonous acid (antimonious acid), "$Sb(OH)_3$".

C01G31/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G33/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G35/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G37/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G39/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G41/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G43/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G45/12

References

Delete: The entire Limiting references section.

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

Informative references

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

Electrode materials comprising the manganates, manganites	H01M4/505

Replace: The existing Glossary of terms table with the following updated table.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

manganate	any negatively charged molecular entity with manganese as the central atom: permanganates ($[MnO_4]^-$) or manganates ($[MnO_4]^{2-}$). However, for the purpose of classification "manganites", which do not contain discrete oxoanions, but are mixed oxides with perovskite ($LaMn^{III}O_3$, $CaMn^{IV}O_3$), spinel ($LiMn^{III,IV}_2O_4$) or sodium chloride ($LiMn^{III}O_2$, $NaMn^{III}O_2$) structures are considered as manganates and shall be classified in the specific subgroup of C01G45/12.

C01G47/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G49/0009

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G49/02

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Mixed oxides or hydroxides	C01G49/0018

C01G49/10

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

Definition statement

This place covers:

Ferrous halogenides, e.g. $FeCl_2$; ferric halogenides, e.g. $FeCl_3$.

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Mixed oxides or hydroxides	C01G49/0018

C01G49/12

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Mixed oxides or hydroxides	C01G49/0018

Replace: The existing Glossary of terms table with the following updated table.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

iron sulfide, iron sulphide	a chemical compound of iron and sulfur with a wide range of stoechiometric formulae and different crystalline structures, e.g. natural minerals: iron(II) sulfide, FeS; troilite, FeS, pyrrhotite; greigite, Fe_3S_4, analog to magnetite, Fe_3O_4; pyrrhotite, $Fe_{1-x}S$ (where x = 0 to 0.2), or Fe_7S_8; mackinawite, $Fe_{1+x}S$ (where x = 0 to 0.1); marcasite, or iron(II) disulfide, FeS_2 (orthorhombic); pyrite, or iron(II) disulfide, FeS_2 (cubic).

C01G49/14

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

Definition statement

This place covers:

E.g. ferrous sulphate, iron(II) sulfate (other names: green vitriol; iron vitriol; copperas; melanterite; szomolnokite), $FeSO_4$; ferric sulphate, Iron(III) sulfate, $Fe_2(SO_4)_3$.

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Mixed oxides or hydroxides	C01G49/0018

C01G49/16

Insert: A period at the end of the Definition statement.

Definition statement

This place covers:

E.g. pentacarbonyl iron, iron carbonyl.

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Mixed oxides or hydroxides	C01G49/0018

C01G51/04

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

Definition statement

This place covers:

Cobalt oxides, such as cobalt(II) oxide (cobaltous oxide, cobalt monoxide), CoO, cobalt(III) oxide (cobaltic oxide), Co_2O_3, cobalt(II,III) oxide (cobaltosic oxide, tricobalt tetroxide) or Co_3O_4.

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:

Use as pigment in ceramics, enamels	C09C1/0009

C01G51/40

Delete: The entire Definition statement.

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:

Making of electrodes comprising the manganites or mangantes for use in galvanic primary cells and batteries, galvanic secondary cells and batteries, fuel cells and batteries.	H01M

Insert: The following new Glossary of terms section.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

cobaltates	compounds comprising $CoO_n^{(x-)}$ anions

C01G51/70

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Containing rare earth and alkaline earth	C01G51/68

C01G53/40

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

Definition statement

This place covers:

Nickelates are compounds comprising NiO_n^{x-} anions.

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:

Making of electrodes comprising the manganites or manganates for use in galvanic primary cells and batteries, galvanic secondary cells and batteries, fuel cells and batteries.	H01M

C01G53/70

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Containing rare earth and alkaline earth	C01G53/68

C01G55/00

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:

Salts of organic acids	C07C
Organometallic compounds	C07F

C01G55/001

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G55/002

References

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

Limiting references

This place does not cover:

Compounds of ruthenium, rhodium, palladium, osmium, iridium, or platinum containing at least one carbonyl group	C01G 55/007

Insert: The following new Informative references section.

Informative references

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

Acyclic or carbocyclic compounds	C07C
Acyclic, carbocyclic or heterocyclic compounds containing elements other than carbon, hydrogen, halogen, oxygen, nitrogen, sulfur, selenium or tellurium	C07F

C01G56/001

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G56/003

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange	C01G 56/001

C01G56/004

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange	C01G 56/001

C01G56/007

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange	C01G 56/001
Compounds of plutonium	C01G 56/004

C01G99/003

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:

Extraction of metal compounds from ores or concentrates by wet processes	C22B3/00

C01G99/006

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange	C01G 99/003

2. B. DEFINITIONS QUICK FIX

Symbol	**Location of change** (e.g., section title)	**Existing reference symbol or text**	**Action; New symbol; New text**
C01G45/003			Delete entire definition
C01G45/006			Delete entire definition
C01G51/003			Delete entire definition
C01G51/006			Delete entire definition
C01G51/12			Delete entire definition
C01G51/30			Delete entire definition
C01G53/003			Delete entire definition
C01G53/006			Delete entire definition

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.

3. REVISION CONCORDANCE LIST (RCL)

Type*	**From CPC Symbol (existing)**	**To CPC Symbol(s)**
C	C01G45/00	C01G45/00, C01G45/03, C01G45/05, C01G45/20, C01G45/22, C01G45/24
D	C01G45/003	<administrative transfer to C01G45/01>
D	C01G45/006	<administrative transfer to C01G45/22>
C	C01G45/02	C01G45/02, C01G45/022, C01G45/024, C01G45/026, C01G45/028, C01G45/03
C	C01G45/06	C01G45/06, C01G45/07
Q	C01G45/22	C01G45/22, C01G45/24
C	C01G51/00	C01G51/00, C01G51/05, C01G51/08, C01G51/085, C01G51/15, C01G51/80, C01G51/82, C01G51/84
D	C01G51/003	<administrative transfer to C01G51/01>
D	C01G51/006	<administrative transfer to C01G51/82>
C	C01G51/04	C01G51/04, C01G51/05
D	C01G51/12	<administrative transfer to C01G51/20>
D	C01G51/30	<administrative transfer to C01G51/15>
Q	C01G51/82	C01G51/82, C01G51/84
C	C01G53/00	C01G53/00, C01G53/05, C01G53/08, C01G53/09, C01G53/11, C01G53/80, C01G53/82, C01G53/84
D	C01G53/003	<administrative transfer to C01G53/01>
D	C01G53/006	<administrative transfer to C01G53/82>
C	C01G53/04	C01G53/04, C01G53/05
C	C01G53/50	C01G53/50, C01G53/502, C01G53/504, C01G53/506, C01G53/51
Q	C01G53/82	C01G53/82, C01G53/84

* 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 finalization projects.

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

CPC	**IPC**	**Action***
C01G 45/003		DELETE
C01G 45/006		DELETE
C01G 45/01	C01G 45/01	NEW
C01G 45/022	C01G 45/022	NEW
C01G 45/024	C01G 45/024	NEW
C01G 45/026	C01G 45/026	NEW
C01G 45/028	C01G 45/028	NEW
C01G 45/03	C01G 45/03	NEW
C01G 45/05	C01G 45/05	NEW
C01G 45/07	C01G 45/07	NEW
C01G 45/1207	C01G 45/1207	UPDATE
C01G 45/1214	C01G 45/1214	UPDATE
C01G 45/1221	C01G 45/1221	UPDATE
C01G 45/1228	C01G 45/1228	UPDATE
C01G 45/1235	C01G 45/1235	UPDATE
C01G 45/1242	C01G 45/1242	UPDATE
C01G 45/125	C01G 45/125	UPDATE
C01G 45/1257	C01G 45/1257	UPDATE
C01G 45/1264	C01G 45/1264	UPDATE
C01G 45/1271	C01G 45/1221	UPDATE
C01G 45/1278	C01G 45/1221	UPDATE
C01G 45/1285	C01G 45/1221	UPDATE
C01G 45/1292	C01G 45/1221	UPDATE
C01G 45/20	C01G 45/20	NEW
C01G 45/22	C01G 45/22	NEW
C01G 45/24	C01G 45/24	NEW
C01G 51/003		DELETE
C01G 51/006		DELETE
C01G 51/01	C01G 51/01	NEW
C01G 51/05	C01G 51/05	NEW
C01G 51/12		DELETE
C01G 51/15	C01G 51/15	NEW
C01G 51/20	C01G 51/20	NEW
C01G 51/30		DELETE
C01G 51/40	C01G 51/40	UPDATE
C01G 51/42	C01G 51/42	UPDATE
C01G 51/44	C01G 51/44	UPDATE
C01G 51/50	C01G 51/50	UPDATE
C01G 51/52	C01G 51/52	UPDATE
C01G 51/54	C01G 51/54	UPDATE
C01G 51/56	C01G 51/56	UPDATE

CPC	**IPC**	**Action***
C01G 51/58	C01G 51/44	UPDATE
C01G 51/60	C01G 51/44	UPDATE
C01G 51/62	C01G 51/44	UPDATE
C01G 51/64	C01G 51/44	UPDATE
C01G 51/66	C01G 51/66	UPDATE
C01G 51/68	C01G 51/68	UPDATE
C01G 51/70	C01G 51/70	UPDATE
C01G 51/80	C01G 51/80	NEW
C01G 51/82	C01G 51/82	NEW
C01G 51/84	C01G 51/84	NEW
C01G 53/003		DELETE
C01G 53/006		DELETE
C01G 53/01	C01G 53/01	NEW
C01G 53/05	C01G 53/05	NEW
C01G 53/40	C01G 53/40	UPDATE
C01G 53/42	C01G 53/42	UPDATE
C01G 53/44	C01G 53/44	UPDATE
C01G 53/50	C01G 53/50	UPDATE
C01G 53/502	C01G 53/502	NEW
C01G 53/504	C01G 53/504	NEW
C01G 53/506	C01G 53/506	NEW
C01G 53/51	C01G 53/51	NEW
C01G 53/52	C01G 53/52	UPDATE
C01G 53/54	C01G 53/54	UPDATE
C01G 53/56	C01G 53/56	UPDATE
C01G 53/58	C01G 53/44	UPDATE
C01G 53/60	C01G 53/44	UPDATE
C01G 53/62	C01G 53/44	UPDATE
C01G 53/64	C01G 53/44	UPDATE
C01G 53/66	C01G 53/66	UPDATE
C01G 53/68	C01G 53/68	UPDATE
C01G 53/70	C01G 53/70	UPDATE
C01G 53/80	C01G 53/80	NEW
C01G 53/82	C01G 53/82	NEW
C01G 53/84	C01G 53/84	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”.

CPC NOTICE OF CHANGES 1697

DATE: JANUARY 1, 2025

PROJECT RP12344

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.

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**
C01P	C01G45/006-C01G45/02	Definition statement	C01G45/02-C01G45/24
C01P	C01G 51/006	Definition statement	C01G51/82
C01P	C01G 53/006	Definition statement	C01G53/82
C04B 2235/3268	C01G 45/006	Informative references	C01G45/22

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.