# SECTION C — CHEMISTRY; METALLURGY

## C01 INORGANIC CHEMISTRY

#### Note(s) [3, 2006.01]

- In subclasses C01B-C01G, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the
  contrary, a compound is classified in the last appropriate place, e.g. potassium permanganate is classified only as a permanganate
  compound, in subclass C01G.
- 2. Biocidal, pest repellant, pest attractant or plant growth regulatory activity of compounds or preparations is further classified in subclass A01P.
- **C01B NON-METALLIC ELEMENTS; COMPOUNDS THEREOF** (fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

## Note(s) [3, 6, 7, 2006.01]

- 1. In this subclass, tradenames that are often found in scientific and patent literature have been used in order to define precisely the scope of the groups.
- 2. Attention is drawn to the definitions of groups of chemical elements following the title of section C.
- 3. Attention is drawn to Note (1) after class C01, which defines the last place priority rule applied in this class, i.e. in the range of subclasses C01B-C01G and within these subclasses.
- 4. Therapeutic activity of compounds is further classified in subclass A61P.

### **Subclass index**

HYDROGEN; HYDROGEN ISOTOPES; WATER; HYDRIDES	
SYNTHESIS GAS	3/00
HALOGENS OR THEIR COMPOUNDS	7/00, 9/00, 11/00
OXYGEN, OXIDES IN GENERAL; PER-COMPOUNDS	13/00, 15/00
SULFUR, COMPOUNDS THEREOF	17/00
NITROGEN, COMPOUNDS THEREOF	
PHOSPHORUS, COMPOUNDS THEREOF	25/00
CARBON, COMPOUNDS THEREOF	32/00
SILICON, COMPOUNDS THEREOF	
SELENIUM OR TELLURIUM; BORON	19/00, 35/00
NOBLE GASES	
COMPOUNDS HAVING MOLECULAR SIEVE PROPERTIES BUT NOT HAVING BASE-EXCH.	ANGE
PROPERTIES	37/00
COMPOUNDS HAVING MOLECULAR SIEVE AND BASE-EXCHANGE PROPERTIES	

## Hydrogen; Hydrides; Water; Synthesis gas from hydrocarbons

- 3/00 Hydrogen; Gaseous mixtures containing hydrogen; Separation of hydrogen from mixtures containing it; Purification of hydrogen (production of water-gas or synthesis gas from solid carbonaceous material C10J) [3, 2006.01]
- Production of hydrogen or of gaseous mixtures containing hydrogen [3, 2006.01]
- 3/04 • by decomposition of inorganic compounds, e.g. ammonia [3, 2006.01]
- by reaction of inorganic compounds containing electro-positively bound hydrogen, e.g. water, acids, bases, ammonia, with inorganic reducing agents (by electrolysis of water C25B 1/04) [3, 2006.01]

- 3/08 • with metals **[3, 2006.01]**
- 3/10 • by reaction of water vapour with metals [3, 2006.01]
- 3/12 • by reaction of water vapour with carbon monoxide [3, 2006.01]
- 3/14 • • Handling of heat and steam **[3, 2006.01]**
- 3/16 • using catalysts [3, 2006.01]
- 3/18 • using moving solid particles **[3, 2006.01]**
- 3/20 • by reaction of metal hydroxides with carbon monoxide [3, 2006.01]
- 3/22 • by decomposition of gaseous or liquid organic compounds [3, 2006.01]
- 3/24 • of hydrocarbons **[3, 2006.01]**
- 3/26 • using catalysts [3, 2006.01]
- 3/28 • using moving solid particles **[3, 2006.01]**

3/30	<ul> <li>• • • • using the fluidised bed technique [3, 2006.01]</li> <li>• by reaction of gaseous or liquid organic compounds with gasifying agents, e.g. water,</li> </ul>	6/21	• • • • • • Preparation of borohydrides of alkali metals, alkaline earth metals, magnesium or beryllium; Addition complexes thereof, e.g. LiBH <sub>4</sub> .2N <sub>2</sub> H <sub>4</sub> ,
3/34	<ul><li>carbon dioxide, air [3, 2006.01]</li><li>• by reaction of hydrocarbons with gasifying</li></ul>	6/23	NaB <sub>2</sub> H <sub>7</sub> [2, 2006.01] • • • • • • Preparation of borohydrides of other
3/36	agents [3, 2006.01]  • • • using oxygen or mixtures containing oxygen		metals, e.g. aluminium borohydride; Addition complexes thereof, e.g. Li
	as gasifying agents [3, 2006.01]		[Al(BH <sub>4</sub> ) <sub>3</sub> H] <b>[2, 2006.01]</b>
3/38	• • • using catalysts [3, 2006.01]	6/24	Hydrides containing at least two metals, e.g.  High and the second of the second
3/40	• • • • characterised by the catalyst [3, 2006.01]		Li(AlH <sub>4</sub> ); Addition complexes thereof (C01B 6/13-C01B 6/23 take precedence) [1, 2, 2006.01]
3/42	• • • • using moving solid particles [3, 2006.01]	6/26	<ul> <li>Preparation from the metal with the highest</li> </ul>
3/44	• • • • • using the fluidised bed technique [3, 2006.01]	0/20	valency or from its oxides or salts of its oxyacids [1, 2006.01]
3/46	<ul> <li>• • • using discontinuously preheated non-moving solid materials, e.g. blast and run [3, 2006.01]</li> </ul>	6/34	• Purification; Stabilisation [1, 2006.01]
3/48	• • • followed by reaction of water vapour with carbon monoxide [3, 2006.01]	<u>Halogens</u>	s; Compounds thereof
3/50	Separation of hydrogen or hydrogen containing gases	7/00	Halogens; Halogen acids [1, 2006.01]
	from gaseous mixtures, e.g. purification (C01B 3/14	7/01	<ul> <li>Chlorine; Hydrogen chloride [2, 2006.01]</li> </ul>
2/52	<ul><li>takes precedence) [3, 2006.01]</li><li>by contacting with liquids; Regeneration of used</li></ul>	7/03	<ul> <li>Preparation from chlorides [2, 3, 2006.01]</li> </ul>
3/52	liquids [3, 2006.01]	7/04	<ul> <li>Preparation of chlorine from hydrogen chloride [1, 3, 2006.01]</li> </ul>
3/54 3/56	• • including a catalytic reaction [3, 2006.01]	7/05	Preparation from ammonium
3/30	<ul> <li>by contacting with solids; Regeneration of used solids [3, 2006.01]</li> </ul>		chloride [2, 3, 2006.01]
3/58	• • including a catalytic reaction [3, 2006.01]	7/07	• • Purification [2, 3, 2006.01]
5,50		7/075	• • • of liquid chlorine [2, 3, 2006.01]
4/00	Hydrogen isotopes; Inorganic compounds thereof	7/09	• Bromine; Hydrogen bromide [2, 2006.01]
	prepared by isotope exchange, e.g. $NH_3 + D_2 \rightarrow NH_2D$	7/13	• Iodine; Hydrogen iodide [2, 2006.01]
	+ HD [1, 2, 2006.01]	7/14	• • Iodine [1, 2, 2006.01]
5/00	Water [1, 2006.01]	7/16	• • • Preparation from seaweed [1, 2, 2006.01]
5/02	Heavy water; Preparation by chemical reaction of	7/19	• Fluorine; Hydrogen fluoride [2, 2006.01]
3/02	hydrogen isotopes or their compounds, e.g.	7/20	• • Fluorine [1, 2, 2006.01]
	4ND <sub>3</sub> +7O <sub>2</sub> $\rightarrow$ 4NO <sub>2</sub> +6D <sub>2</sub> O, 2D <sub>2</sub> +O <sub>2</sub> $\rightarrow$	7/24	• Inter-halogen compounds [1, 2006.01]
	2D <sub>2</sub> O <b>[1, 2006.01]</b>	9/00	General methods of preparing halides (particular
C / O O	TT 1 1 1		individual halides, see the relevant groups in subclasses
6/00	Hydrides of metals; Monoborane or diborane; Addition complexes thereof [1, 2, 2006.01]		C01B-C01G according to the element combined with
6/02	Hydrides of transition elements; Addition complexes		the halogen; electrolytic production of inorganic
0/02	thereof [1, 2006.01]	0.400	compounds C25B) [1, 2006.01]
6/04	Hydrides of alkali metals, alkaline earth metals,	9/02	• Chlorides [1, 2006.01]
0,0.	beryllium or magnesium; Addition complexes	9/04	• Bromides [1, 2006.01]
	thereof <b>[1, 2006.01]</b>	9/06	• Iodides [1, 2006.01]
6/06	<ul> <li>Hydrides of aluminium, gallium, indium, thallium,</li> </ul>	9/08	• Fluorides [1, 2006.01]
	germanium, tin, lead, arsenic, antimony, bismuth or polonium; Monoborane; Diborane; Addition	11/00	Oxides or oxyacids of halogens; Salts thereof [1, 2006.01]
C /10	complexes thereof [1, 2006.01]	11/02	• Oxides of chlorine [1, 2006.01]
6/10	<ul> <li>Monoborane; Diborane; Addition complexes thereof [1, 2, 2006.01]</li> </ul>	11/04	<ul> <li>Hypochlorous acid [1, 2006.01]</li> </ul>
6/11	• • Preparation from boron or inorganic	11/06	• • Hypochlorites, e.g. chlorinated lime [1, 2006.01]
0/11	compounds containing boron and	11/08	<ul> <li>Chlorous acid [1, 2006.01]</li> </ul>
	oxygen [2, 2006.01]	11/10	• • Chlorites [1, 2006.01]
6/13	• • • Addition complexes of monoborane or	11/12	<ul> <li>Chloric acid [1, 2006.01]</li> </ul>
	diborane, e.g. with phosphine, arsine or	11/14	<ul> <li>Chlorates [1, 2006.01]</li> </ul>
	hydrazine <b>[2, 2006.01]</b>	11/16	<ul> <li>Perchloric acid [1, 2006.01]</li> </ul>
6/15	• • • Metal borohydrides; Addition complexes	11/18	• • Perchlorates [1, 2006.01]
C / 4 =	thereof [2, 2006.01]	11/20	• Oxygen compounds of bromine [1, 2006.01]
6/17	• • • • • Preparation from boron or inorganic	11/22	<ul> <li>Oxygen compounds of iodine [1, 2006.01]</li> </ul>
6.110	compounds containing boron and oxygen [2, 2006.01]	11/24	• Oxygen compounds of fluorine [1, 2006.01]
6/19	• • • • Preparation from other compounds of boron [2, 2006.01]	Oxygen;	Oxides or hydroxides in general; Per-compounds

13/00

IPC (2024.01), Section C

Oxygen; Ozone; Oxides or hydroxides in general [1, 2006.01]

13/02	•	Preparation of oxygen (by liquefying F25J) [1, 2006.01]	17/00 17/00		ulfur; Compounds thereof [1, 2006.01]
13/08		• from air with the aid of metal oxides, e.g. barium	17/02 17/027		Preparation of sulfur; Purification [1, 2006.01] • Recovery of sulfur from material containing
157 00		oxide, manganese oxide [1, 2006.01]	1//02/	-	elemental sulfur, e.g. luxmasses;
13/10	•	Preparation of ozone [1, 2006.01]			Purification <b>[3, 2006.01]</b>
13/11	•	• by electric discharge [2, 2006.01]	17/033	•	• • using a liquid extractant [3, 2006.01]
13/14	•	Methods for preparing oxides or hydroxides in	17/04	•	• from gaseous sulfur compounds including gaseous
		general (particular individual oxides or hydroxides,	45.05		sulfides [1, 2006.01]
		see the relevant groups of subclasses C01B-C01G or C25B, according to the element combined with the	17/05		• by wet processes [3, 2006.01]
		oxygen or hydroxy group) [1, 2006.01]	17/06	•	<ul> <li>from non-gaseous sulfides or materials containing such sulfides, e.g. ores [1, 2006.01]</li> </ul>
13/16	•	• Purification [3, 2006.01]	17/10		• Finely-divided sulfur, e.g. sublimed sulfur, flowers
13/18	•	• by thermal decomposition of compounds, e.g. of	17,10		of sulfur [1, 2006.01]
		salts or hydroxides [3, 2006.01]	17/12	•	• Insoluble sulfur (mu-sulfur) [1, 2006.01]
13/20	•	• by oxidation of elements in the gaseous state; by	17/16	•	Hydrogen sulfides [1, 2006.01]
		oxidation or hydrolysis of compounds in the gaseous state [3, 2006.01]	17/18		<ul> <li>Hydrogen polysulfides [1, 2006.01]</li> </ul>
13/22		<ul> <li>of halides or oxyhalides [3, 2006.01]</li> </ul>	17/20	•	Methods for preparing sulfides or polysulfides, in
13/24		• • in the presence of hot combustion			general (ammonium sulfides or polysulfides C01C; sulfides or polysulfides of metals, other than alkali
		gases [3, 2006.01]			metals, magnesium, calcium, strontium, and barium,
13/26	•	• • • in the presence of a fluidised			see the relevant groups of subclasses C01F or C01G,
		bed <b>[3, 2006.01]</b>			according to the metal) [1, 2006.01]
13/28	•	• • using a plasma or an electric	17/22		Alkali metal sulfides or polysulfides [1, 2006.01]
13/30		discharge [3, 2006.01]  • • • Removal and cooling of the oxide containing	17/24		• Preparation by reduction [1, 2006.01]
13/30	٠	suspension [3, 2006.01]	17/26		• • with carbon [1, 2006.01]
13/32		by oxidation or hydrolysis of elements or	17/28		• with reducing gases [1, 2006.01]
		compounds in the liquid or solid state [3, 2006.01]	17/30	•	<ul> <li>Preparation from sodium or potassium amalgam with sulfur or sulfides [1, 2006.01]</li> </ul>
13/34	•	<ul> <li>by oxidation or hydrolysis of sprayed or atomised</li> </ul>	17/32	•	Hydrosulfides of sodium or
		solutions [3, 2006.01]	17,702		potassium [1, 2006.01]
13/36	•	• by precipitation reactions in solutions [3, 2006.01]	17/34	•	• Polysulfides of sodium or potassium [1, 2006.01]
15/00	P	eroxides; Peroxyhydrates; Peroxyacids or salts	17/36	•	• Purification [1, 2006.01]
		ereof; Superoxides; Ozonides [1, 2006.01]	17/38	•	• Dehydration [1, 2006.01]
15/01	•	Hydrogen peroxide [3, 2006.01]	17/40	•	Making shaped products, e.g.
15/013	•	Separation; Purification;	17/40		granules [1, 2006.01]
		Concentration [3, 2006.01]	17/42	•	Sulfides or polysulfides of magnesium, calcium, strontium, or barium [1, 2006.01]
15/017	•	<ul> <li>Anhydrous hydrogen peroxide; Anhydrous solutions or gaseous mixtures containing</li> </ul>	17/43		<ul> <li>from oxides or hydroxides with sulfur or hydrogen</li> </ul>
		hydrogen peroxide [3, 2006.01]			sulfide [1, 2006.01]
15/022	•	• Preparation from organic compounds [2, 2006.01]	17/44	•	• by reduction of sulfates [1, 2006.01]
		• • by the alkyl-anthraquinone process [3, 2006.01]	17/45	•	Compounds containing sulfur and halogen, with or
15/024	•	• • from hydrocarbons [3, 2006.01]	.=		without oxygen [1, 2006.01]
15/026	•	• • from alcohols [3, 2006.01]	17/46	•	Compounds containing sulfur, halogen, hydrogen, and oxygen [1, 2006.01]
15/027		• Preparation from water [3, 2006.01]	17/48		Sulfur dioxide; Sulfurous acid [1, 2006.01]
15/029	•	Preparation from hydrogen and	17/50		• Preparation of sulfur dioxide [1, 2006.01]
15/02		oxygen [3, 2006.01]	17/52		<ul> <li>by roasting sulfides (preliminary treatment of</li> </ul>
15/03	•	<ul> <li>Preparation from inorganic peroxy-compounds,</li> <li>e.g. from peroxysulfates [3, 2006.01]</li> </ul>			ores or scrap C22B 1/00) [1, 2006.01]
15/032		• from metal peroxides [3, 2006.01]	17/54	•	• • by burning elemental sulfur [1, 2006.01]
		• Stabilisation by additives [3, 2006.01]	17/56	•	• • Separation; Purification [1, 2006.01]
15/04		Metal peroxides or peroxyhydrates thereof;	17/58	•	• • Recovery of sulfur dioxide from acid tar or the
		Superoxides; Ozonides [1, 3, 2006.01]	4= 400		like [1, 2006.01]
15/043	•	<ul> <li>of alkali metals, alkaline earth metals or of</li> </ul>	17/60	•	• • Isolation of sulfur dioxide from gases [1, 2006.01]
		magnesium [2, 3, 2006.01]	17/62		Methods of preparing sulfites in general (particular
		• of heavy metals [2, 3, 2006.01]	17702		individual sulfites, <u>see</u> the relevant groups of
15/055	•	Peroxyhydrates (C01B 15/04 takes precedence); Peroxyacids or salts thereof [3, 2006.01]			subclasses C01B-C01G, according to the
15/06		• containing sulfur [1, 3, 2006.01]			cation) [1, 2006.01]
15/08		• Peroxysulfates [1, 3, 2006.01]	17/64		Thiosulfates; Dithionites; Polythionates [1, 2006.01]
15/10		• containing carbon [1, 3, 2006.01]	17/66		• Dithionites [1, 2006.01]
15/12		• containing boron [1, 3, 2006.01]	17/69		Sulfur trioxide; Sulfuric acid [3, 2006.01]
15/14		• containing silicon [1, 3, 2006.01]	17/70	•	<ul> <li>Stabilisation of gamma-form sulfur trioxide [1, 2006.01]</li> </ul>
15/16	•	• containing phosphorus [1, 3, 2006.01]	17/74		• Preparation [1, 3, 2006.01]
			17/76		<ul> <li>by contact processes [1, 2006.01]</li> </ul>
			,,,		- J

17/765	• • • • Multi-stage SO <sub>3</sub> -conversion [3, 2006.01]	21/14	<ul> <li>Hydroxylamine; Salts thereof [1, 2006.01]</li> </ul>
17/77	• • • • Fluidised-bed processes [3, 2006.01]	21/16	<ul> <li>Hydrazine; Salts thereof [1, 2006.01]</li> </ul>
17/775	Liquid phase contacting processes or wet	21/20	Nitrogen oxides; Oxyacids of nitrogen; Salts
177775	catalysis processes [3, 2006.01]	21/20	thereof [1, 2006.01]
17/78	• • • characterised by the catalyst	21/22	• • Nitrous oxide (N <sub>2</sub> O) [1, 2006.01]
	used <b>[1, 2006.01]</b>	21/24	• • Nitric oxide (NO) [1, 2006.01]
17/79	• • • • containing vanadium [3, 2006.01]	21/26	Preparation by catalytic oxidation of
17/80	• • • • Apparatus [1, 2006.01]	=17=0	ammonia [1, 2006.01]
17/82	of sulfuric acid using a nitrogen oxide	21/28	• • • • Apparatus [1, 2006.01]
	process [1, 2006.01]	21/30	Preparation by oxidation of
17/84	• • • Chamber process [1, 2006.01]		nitrogen <b>[1, 2006.01]</b>
17/86	• • • • Tower process [1, 2006.01]	21/32	• • • • Apparatus [1, 2006.01]
17/88	• • Concentration of sulfuric acid [1, 2006.01]	21/34	• • Nitrogen trioxide (N <sub>2</sub> O <sub>3</sub> ) [1, 2006.01]
17/90	• • Separation; Purification [1, 2006.01]	21/36	<ul> <li>Nitrogen dioxide (NO<sub>2</sub>, N<sub>2</sub>O<sub>4</sub>) (C01B 21/26,</li> </ul>
17/92	• • Recovery from acid tar or the like [1, 2006.01]		C01B 21/30 take precedence) [1, 2006.01]
17/94	• • Recovery from nitration acids [1, 2006.01]	21/38	• • Nitric acid [1, 2006.01]
17/96	<ul> <li>Methods for the preparation of sulfates in general</li> </ul>	21/40	<ul> <li>Preparation by absorption of oxides of</li> </ul>
	(particular individual sulfates, see the relevant groups		nitrogen <b>[1, 2006.01]</b>
	of subclasses C01B-C01G, according to the	21/42	• • • Preparation from nitrates [1, 2006.01]
	cation) [1, 2006.01]	21/44	• • • Concentration [1, 2006.01]
17/98	Other compounds containing sulfur and oxygen	21/46	• • • Purification; Separation [1, 2006.01]
	(persulfuric acids C01B 15/06; persulfates	21/48	• • Methods for the preparation of nitrates in general
	C01B 15/08) <b>[1, 2006.01]</b>		(particular individual nitrates, <u>see</u> the relevant
19/00	Selenium; Tellurium; Compounds		groups of subclasses C01B-C01G, according to
	thereof [1, 2006.01]	21/50	the cation) [1, 2006.01]
19/02	• Elemental selenium or tellurium [3, 2006.01]	21/50	• • Nitrous acid; Salts thereof [1, 2006.01]
19/04	• Binary compounds [3, 2006.01]	23/00	Noble gases; Compounds thereof (liquefying
			F25J) <b>[1, 2006.01]</b>
21/00	Nitrogen; Compounds thereof [1, 2006.01]		
21/02	Preparation of nitrogen (by decomposition of	25/00	Phosphorus; Compounds thereof (C01B 21/00,
	ammonia C01B 3/04) <b>[1, 2006.01]</b>		C01B 23/00 take precedence; perphosphates
21/04	<ul> <li>Purification or separation of nitrogen (by liquefying</li> </ul>		C01B 15/16) <b>[1, 3, 2006.01]</b>
	EDED [4, 2000 04]	25 /01	Transfirm all a salacta arrea arrests arreas all a salacta
21 /06	F25J) [1, 2006.01]	25/01	Treating phosphate ores or other raw phosphate     materials to obtain phosphorus or phosphorus
21/06	• Binary compounds of nitrogen with metals, with	25/01	materials to obtain phosphorus or phosphorus
	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> </ul>		materials to obtain phosphorus or phosphorus compounds [2, 2006.01]
21/064	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> </ul>	25/02	<ul> <li>materials to obtain phosphorus or phosphorus compounds [2, 2006.01]</li> <li>Preparation of phosphorus [1, 2006.01]</li> </ul>
21/064 21/068	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> </ul>	25/02 25/023	<ul> <li>materials to obtain phosphorus or phosphorus compounds [2, 2006.01]</li> <li>Preparation of phosphorus [1, 2006.01]</li> <li>of red phosphorus [2, 2006.01]</li> </ul>
21/064 21/068 21/072	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> </ul>	25/02 25/023 25/027	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]
21/064 21/068 21/072 21/076	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]
21/064 21/068 21/072 21/076 21/08	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]
21/064 21/068 21/072 21/076	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]
21/064 21/068 21/072 21/076 21/08	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  purification of phosphorus [1, 2006.01]  purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  to fyellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]
21/064 21/068 21/072 21/076 21/08	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of
21/064 21/068 21/072 21/076 21/08 21/082	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g.</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/06 25/08 25/10 25/12 25/14 25/16	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/06 25/08 25/10 25/12 25/14 25/16	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with ittanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>Halogeno-amines, e.g.</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Hydrogen phosphides [1, 2006.01]  Malides or oxyhalides of phosphorus [1, 2, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>Halogeno-amines, e.g. chloramine [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with ittanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>Halogeno-amines, e.g. chloramine [3, 2006.01]</li> <li>containing also one or more metal</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Pyrophosphorous acid; Salts thereof [2, 2006.01]
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088 21/09 21/092	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Pyrophosphorous acid; Salts thereof [1, 2006.01]  Phosphoric acid [1, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18 25/20	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Pyrophosphorous acid; Salts thereof [1, 2006.01]  Phosphoric acid [1, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing material with an acid, e.g. wet
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088 21/09 21/092 21/093	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18 25/20 25/22	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing material with an acid, e.g. wet process [1, 2006.01]
21/064 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088 21/09 21/092 21/093 21/094	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>Nitrosyl containing acids [3, 2006.01]</li> <li>Nitrosyl containing acids [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18 25/20	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Oxides of phosphorus [1, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing material with an acid, e.g. wet process [1, 2006.01]  with sulfuric acid, a mixture of acids mainly
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088 21/09 21/092 21/093	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>Aidogeno-amines, e.g. chloramine [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>Amidosulfonic acid; Salts</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18 25/20 25/22	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Phosphoric acid [1, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing material with an acid, e.g. wet process [1, 2006.01]  with sulfuric acid, a mixture of acids mainly consisting of sulfuric acid or a mixture of
21/064 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/088 21/09 21/092 21/093 21/094	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>Amidosulfonic acid; Salts thereof [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18 25/20 25/22	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing material with an acid, e.g. wet process [1, 2006.01]  with sulfuric acid, a mixture of acids mainly consisting of sulfuric acid or a mixture of compounds forming it in situ, e.g. a mixture
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/098 21/099 21/099 21/0992	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>Aidogeno-amines, e.g. chloramine [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>Amidosulfonic acid; Salts</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18 25/20 25/22	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Hydrogen phosphides [1, 2006.01]  Malides or oxyhalides of phosphorus [1, 2, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing material with an acid, e.g. wet process [1, 2006.01]  with sulfuric acid, a mixture of acids mainly consisting of sulfuric acid or a mixture of compounds forming it in situ, e.g. a mixture of sulfur dioxide, water and
21/064 21/068 21/072 21/076 21/08 21/082 21/083 21/084 21/086 21/087 21/099 21/099 21/099 21/099 21/0996 21/097	<ul> <li>Binary compounds of nitrogen with metals, with silicon, or with boron [1, 2006.01]</li> <li>with boron [3, 2006.01]</li> <li>with silicon [3, 2006.01]</li> <li>with aluminium [3, 2006.01]</li> <li>with titanium or zirconium [3, 2006.01]</li> <li>Hydrazoic acid; Azides; Halogen azides [1, 2006.01]</li> <li>Compounds containing nitrogen and non-metals (C01B 21/06, C01B 21/08 take precedence) [3, 2006.01]</li> <li>containing one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more oxygen atoms, e.g. nitrosyl halides [3, 2006.01]</li> <li>containing one or more sulfur atoms [3, 2006.01]</li> <li>containing one or more hydrogen atoms [3, 2006.01]</li> <li>containing also one or more halogen atoms [3, 2006.01]</li> <li>containing also one or more metal atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>containing also one or more sulfur atoms [3, 2006.01]</li> <li>Amidosulfonic acid; Salts thereof [3, 2006.01]</li> <li>containing phosphorus atoms [3, 2006.01]</li> </ul>	25/02 25/023 25/027 25/04 25/043 25/047 25/06 25/08 25/10 25/12 25/14 25/16 25/163 25/165 25/168 25/18 25/20 25/22	materials to obtain phosphorus or phosphorus compounds [2, 2006.01]  Preparation of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  Purification of phosphorus [1, 2006.01]  of red phosphorus [2, 2006.01]  of red phosphorus [2, 2006.01]  of yellow phosphorus [2, 2006.01]  Hydrogen phosphides [1, 2006.01]  Other phosphides [1, 2006.01]  Halides or oxyhalides of phosphorus [1, 2, 2006.01]  Sulfur, selenium, or tellurium compounds of phosphorus [1, 2006.01]  Oxyacids of phosphorus; Salts thereof (peroxyacids or salts thereof C01B 15/00) [1, 2006.01]  Phosphorous acid; Salts thereof [2, 2006.01]  Hypophosphorous acid; Salts thereof [2, 2006.01]  Preparation from elemental phosphorus or phosphoric anhydride [1, 2006.01]  Preparation by reacting phosphate containing material with an acid, e.g. wet process [1, 2006.01]  with sulfuric acid, a mixture of acids mainly consisting of sulfuric acid or a mixture of compounds forming it in situ, e.g. a mixture

25/225	• • • • • Dihydrate process [3, 2006.01]	32/17	• • • • Purification [2017.01]
25/226	• • • • • Hemihydrate process <b>[3, 2006.01]</b>	32/172	3.
25/228	• • • • one form of calcium sulfate being formed	32/174	, , ,
	and then converted to another form [3, 2006.01]	22/176	solvents [2017.01]
25/229	• • • • Hemihydrate-dihydrate		• • • Cutting [2017.01]
23/223	process [3, 2006.01]		• • • Opening; Filling [2017.01]
25/231	• • • • • Dihydrate-hemihydrate	32/18	<ul> <li>Nanoonions; Nanoscrolls; Nanohorns; Nanocones; Nanowalls [2017.01]</li> </ul>
20/201	process [3, 2006.01]	32/182	• • Graphene [2017.01]
25/232	• • • • Preparation by reacting phosphate		• • • Preparation [2017.01]
	containing material with concentrated		• • • by chemical vapour deposition
	sulfuric acid and subsequently lixiviating	527 100	[CVD] [2017.01]
	the obtained mass, e.g. clincker	32/188	
25/234	process [3, 2006.01]  • • • Purification; Stabilisation; Concentration	32/19	• • • • by exfoliation <b>[2017.01]</b>
23/234	Purification; Stabilisation; Concentration     (purification concomitant with preparation)	32/192	• • • • starting from graphitic oxides [2017.01]
	C01B 25/22; preparation involving solvent-	32/194	• • • After-treatment [2017.01]
	solvent extraction C01B 25/46) [3, 2006.01]	32/196	• • • • Purification <b>[2017.01]</b>
25/235	<ul> <li>Clarification; Stabilisation to prevent post-</li> </ul>	32/198	• • • Graphene oxide <b>[2017.01]</b>
	precipitation of dissolved	32/20	• Graphite <b>[2017.01]</b>
05 (005	impurities [3, 2006.01]	32/205	·
25/237	• • • Selective elimination of	32/21	• • After-treatment [2017.01]
25/238	impurities [3, 2006.01] • • • • Cationic impurities [3, 2006.01]	32/215	, , ,
25/24	• Condensed phosphoric acids [1, 2006.01]		graphite formed in iron making, e.g. kish
25/24	Phosphates (perphosphates	32/22	graphite [2017.01] • • • Intercalation [2017.01]
23/20	C01B 15/16) [1, 2006.01]	32/22	
25/28	• • • Ammonium phosphates [1, 2006.01]	32/23	• • • Oxidation [2017.01]
25/30	• • • Alkali metal phosphates [1, 2006.01]	32/25	• Diamond [2017.01]
25/32	Phosphates of magnesium, calcium, strontium,	32/26	Preparation (by using ultra-high pressure)
	or barium <b>[1, 2006.01]</b>	32723	B01J 3/06; by crystal growth
25/34	• • • • Magnesium phosphates [1, 2006.01]		C30B 29/04) [2017.01]
25/36	• • • Aluminium phosphates [1, 2006.01]	32/28	<ul> <li>After-treatment, e.g. purification, irradiation,</li> </ul>
25/37	• • • Phosphates of heavy metals [2, 2006.01]		separation or recovery [2017.01]
25/38	• • • Condensed phosphates [1, 2006.01]	32/30	• Active carbon [2017.01]
25/39	• • • of alkali metals [3, 2006.01]	32/306	1 1
25/40	• • • Polyphosphates [2, 2006.01]	32/312	
25/41	• • • • of alkali metals [3, 2006.01]	32/318	<ul> <li>characterised by the starting materials [2017.01]</li> </ul>
25/42	• • • Pyrophosphates [2, 2006.01]	32/324	
25/44	• • • Metaphosphates [2, 2006.01]	32/324	sulfite pulp liquor [2017.01]
25/445 25/45	<ul><li>• • • of alkali metals [3, 2006.01]</li><li>• • containing plural metal, or metal and</li></ul>	32/33	• • • from distillation residues of coal or
23/43	ammonium [3, 2006.01]		petroleum; from petroleum acid
25/455	• • • containing halogen [3, 2006.01]		sludge <b>[2017.01]</b>
25/46	Preparation involving solvent-solvent	32/336	
	extraction <b>[2, 2006.01]</b>	00/0/0	agents [2017.01]
		32/342	, ,
32/00	Carbon; Compounds thereof (C01B 21/00,	22/2/0	agents [2017.01]  • • • • Metallic compounds [2017.01]
	C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01]		<ul> <li>After-treatment [2017.01]</li> </ul>
32/05	Preparation or purification of carbon not covered by	32/36	• • Reactivation or regeneration [2017.01]
32/03	groups C01B 32/15, C01B 32/20, C01B 32/25,	32/366	
	C01B 32/30 <b>[2017.01]</b>	32/300	using electric current passing through
32/10	<ul> <li>Carbon fluorides, e.g. [CF]<sub>n</sub> or [C₂F]<sub>n</sub> (graphite</li> </ul>		carbonaceous feedstock or by using
	intercalation thereof C01B 32/22) <b>[2017.01]</b>		recyclable inert heating bodies [2017.01]
32/15	<ul> <li>Nanosized carbon materials [2017.01]</li> </ul>	32/372	<ul> <li>Coating; Grafting;</li> </ul>
	• • Fullerenes [2017.01]		Microencapsulation [2017.01]
32/154	• • • Preparation [2017.01]	32/378	
32/156	• • After-treatment [2017.01]	32/384	• • • Granulation [2017.01]
32/158	• Carbon nanotubes [2017.01]		Note(s) [2017.01]
32/159	• • • single-walled [2017.01]		In this group, the term "granulation" also <u>covers</u>
32/16	• • • Preparation [2017.01]		methods of preparation of active carbon using
	<ul><li>• • • characterised by catalysts [2017.01]</li><li>• • • involving continuous processes [2017.01]</li></ul>		carbonaceous precursors per se and binders, e.g. pitch.
	• • • • involving continuous processes [2017.01] • • • • in liquid phase [2017.01]	32/39	• • Apparatus for the preparation thereof <b>[2017.01]</b>
	• • • After-treatment [2017.01]	32/40	<ul> <li>Carbon monoxide [2017.01]</li> </ul>
54/100	rmer-acament [2017.01]		

6

32/50	<ul> <li>Carbon dioxide [2017.01]</li> </ul>	33/035 • • • by decomposition or reduction of gaseous or
32/55	• • Solidifying [2017.01]	vaporised silicon compounds in the presence
32/60	Preparation of carbonates or bicarbonates in general	of heated filaments of silicon, carbon or a
	(of percarbonates C01B 15/10; of specific carbonates	refractory metal, e.g. tantalum or tungsten,
	or bicarbonates according to the cation C01B-	or in the presence of heated silicon rods on
	C01G) [ <b>2017.01</b> ]	which the formed silicon is deposited, a
32/70	<ul> <li>Compounds containing carbon and sulfur, e.g.</li> </ul>	silicon rod being obtained, e.g. Siemens process [5, 2006.01]
	thiophosgene [2017.01]	
32/72	• • Carbon disulfide <b>[2017.01]</b>	33/037 • Purification (by zone-melting C30B 13/00) <b>[5, 2006.01]</b>
32/75	<ul> <li>Preparation by reacting sulfur or sulfur</li> </ul>	33/039 • • • by conversion of the silicon into a compound,
	compounds with hydrocarbons [2017.01]	optional purification of the compound, and
32/77	<ul> <li>Carbon oxysulfide [2017.01]</li> </ul>	reconversion into silicon [5, 2006.01]
32/80	• Phosgene [2017.01]	33/04 • Hydrides of silicon [1, 2006.01]
32/90	• Carbides [2017.01]	33/06 • Metal silicides [1, 2006.01]
32/907	<ul> <li>Oxycarbides; Sulfocarbides; Mixture of</li> </ul>	33/08 • Compounds containing halogen [1, 2006.01]
	carbides <b>[2017.01]</b>	33/10 • Compounds containing silicon, fluorine, and other
32/914	<ul> <li>Carbides of single elements [2017.01]</li> </ul>	elements [1, 2006.01]
32/921	• • • Titanium carbide <b>[2017.01]</b>	33/107 • • Halogenated silanes [3, 2006.01]
32/928	<ul> <li>Carbides of actinides [2017.01]</li> </ul>	33/113 • Silicon oxides; Hydrates thereof [3, 2006.01]
32/935	<ul> <li>Carbides of alkali metals, strontium, barium or</li> </ul>	33/12 • Silica; Hydrates thereof, e.g. lepidoic silicic
	magnesium <b>[2017.01]</b>	acid [1, 3, 2006.01]
32/942	• • • Calcium carbide [2017.01]	33/14 • • Colloidal silica, e.g. dispersions, gels,
32/949	• • • Tungsten or molybdenum carbides [2017.01]	sols [1, 3, 2006.01]
32/956	• • • Silicon carbide <b>[2017.01]</b>	33/141 • • • • Preparation of hydrosols or aqueous
32/963	• • • Preparation from compounds containing	dispersions [3, 2006.01]
	silicon <b>[2017.01]</b>	33/142 • • • • by acidic treatment of
32/97	• • • • Preparation from SiO or SiO <sub>2</sub> [2017.01]	silicates [3, 2006.01]
32/977	• • • • Preparation from organic compounds	33/143 • • • • of aqueous solutions of
	containing silicon [2017.01]	silicates [3, 2006.01]
32/984	• • • • Preparation from elemental	33/145 • • • Preparation of hydroorganosols, organosols
	silicon <b>[2017.01]</b>	or dispersions in an organic
32/991	• • • Boron carbide <b>[2017.01]</b>	medium [3, 2006.01]
33/00	Silicon; Compounds thereof (C01B 21/00, C01B 23/00	33/146 • • • After-treatment of sols (preparation of
33/00	take precedence; persilicates C01B 15/14; carbides	hydroorganosols, organosols or dispersions
	C01B 32/956) [1, 3, 2006.01]	in an organic medium from hydrosols
33/02	Silicon (forming single crystals or homogeneous	C01B 33/145) [3, 2006.01]
	polycrystalline material with defined structure	33/148 • • • • Concentration; Drying; Dehydration; Stabilisation; Purification [3, 2006.01]
	C30B) <b>[1, 5, 2006.01]</b>	33/149 • • • • Coating [3, 2006.01]
33/021	<ul> <li>Preparation (chemical coating from the vapour</li> </ul>	33/151 • • • • by progressively adding a sol to a
	phase C23C 16/00) <b>[5, 2006.01]</b>	different sol, i.e. "build up" of particles
33/023	<ul> <li>• • by reduction of silica or silica-containing</li> </ul>	using a "heel" [3, 2006.01]
	material <b>[5, 2006.01]</b>	33/152 • • • • Preparation of hydrogels <b>[3, 2006.01]</b>
33/025	• • • with carbon or a solid carbonaceous	33/154 • • • • by acidic treatment of aqueous silicate
	material, i.e. carbo-thermal	solutions [3, 2006.01]
DD /00 <b>5</b>	process [5, 2006.01]	33/155 • • • Preparation of hydroorganogels or
33/027	• • by decomposition or reduction of gaseous or	organogels [3, 2006.01]
	vaporised silicon compounds other than silica or silica-containing material [5, 2006.01]	33/157 • • • • After-treatment of gels [3, 2006.01]
33/029	• • • by decomposition of	33/158 • • • • Purification; Drying;
55/023	monosilane [5, 2006.01]	Dehydrating [3, 2006.01]
33/03	• • • by decomposition of silicon halides or	33/159 • • • • Coating or hydrophobisation [3, 2006.01]
557 05	halosilanes or reduction thereof with	33/16 • • • Preparation of silica xerogels <b>[1, 3, 2006.01]</b>
	hydrogen as the only reducing	33/18 • • • Preparation of finely divided silica neither in
	agent [5, 2006.01]	sol nor in gel form; After-treatment thereof
33/031	• • • • by decomposition of silicon	(treatment to enhance the pigmenting or filling
	tetraiodide [5, 2006.01]	properties C09C) [1, 3, 2006.01]
33/033	<ul> <li>• • by reduction of silicon halides or halosilanes</li> </ul>	33/187 • • • by acidic treatment of silicates <b>[3, 2006.01]</b>
	with a metal or a metallic alloy as the only	33/193 • • • • of aqueous solutions of
	reducing agents [5, 2006.01]	silicates [3, 2006.01]
		33/20 • Silicates (persilicates C01B 15/14) [1, 2006.01]
		33/22 • Magnesium silicates [1, 2006.01]
		33/24 • • Alkaline earth metal silicates [1, 2006.01]
		33/26 • • Aluminium-containing silicates [1, 5, 2006.01]
		33/32 • • Alkali metal silicates (C01B 33/26 takes
		precedence) [1, 3, 2006.01]

33/36	<ul> <li>having base-exchange properties but not having molecular sieve properties [6, 2006.01]</li> </ul>				<ul> <li>i. crystalline aluminosilicates with base- exchange and molecular sieve</li> </ul>
33/38	<ul> <li>Layered base-exchange silicates, e.g. clays, micas or alkali metal silicates of kenyaite or magadiite type [6, 2006.01]</li> </ul>				properties, having three dimensional, microporous lattice framework structure of tetrahedral oxide units;
33/40	• • • • Clays [6, 2006.01]				ii. compounds isomorphous to those of
33/42	• • • • Micas [6, 2006.01]				the former category, wherein the
33/44	• • • • Products obtained from layered base- exchange silicates by ion-exchange with organic compounds such as ammonium, phosphonium or sulfonium compounds or by intercalation of organic compounds, e.g.				aluminium or silicon atoms in the framework are partly or wholly replaced by atoms of other elements, e.g. by gallium, germanium, phosphorus or boron.
33/46	organoclay material [6, 2006.01]  • • Amorphous silicates, e.g. so-called "amorphous zeolites" [6, 2006.01]	39/02	•		rystalline aluminosilicate zeolites; Isomorphous
	zeomes [0, 2000.01]				ompounds thereof; Direct preparation thereof;
35/00	<b>Boron; Compounds thereof</b> (monoborane, diborane, metal borohydrides or addition complexes thereof C01B 6/00; perborates C01B 15/12; binary compounds with nitrogen C01B 21/06; phosphides C01B 25/08;	20/04		fr th	reparation thereof starting from a reaction mixture ontaining a crystalline zeolite of another type, or om preformed reactants; After-treatment hereof [6, 2006.01]
	carbides C01B 32/991) [1, 2, 2006.01]	39/04	•	•	using at least one organic template directing agent,
35/02	• Boron; Borides [2, 2006.01]				e.g. an ionic quaternary ammonium compound or
35/04	<ul> <li>Metal borides [2, 2006.01]</li> </ul>	39/06			an aminated compound <b>[6, 2006.01]</b>
35/06	<ul> <li>Boron halogen compounds [2, 2006.01]</li> </ul>	39/06	٠	٠	Preparation of isomorphous zeolites characterised by measures to replace the aluminium or silicon
35/08	<ul> <li>Compounds containing boron and nitrogen, phosphorus, oxygen, sulfur, selenium or tellurium [2, 2006.01]</li> </ul>				atoms in the lattice framework by atoms of other elements <b>[6, 2006.01]</b>
35/10	<ul> <li>Compounds containing boron and oxygen (C01B 35/06 takes precedence) [2, 2006.01]</li> </ul>	39/08	•	•	<ul> <li>the aluminium atoms being wholly replaced [6, 2006.01]</li> </ul>
35/12	• • • Borates [2, 2006.01]	39/10	•	•	<ul> <li>the replacing atoms being phosphorus</li> </ul>
35/14	Compounds containing boron and nitrogen,	20/40			atoms <b>[6, 2006.01]</b>
33/14	phosphorus, sulfur, selenium or tellurium [2, 2006.01]	39/12			<ul> <li>the replacing atoms being boron atoms [6, 2006.01]</li> </ul>
35/16	Compounds containing direct bonding between two	39/14			Type A <b>[6, 2006.01]</b>
35/18	boron atoms, e.g. Cl <sub>2</sub> B—BCl <sub>2</sub> [2, 2006.01]  • Compounds containing three or more boron atoms,	39/16	•	•	<ul> <li>from aqueous solutions of an alkali metal aluminate and an alkali metal silicate excluding any other source of alumina or silica but</li> </ul>
	e.g. NaB <sub>3</sub> H <sub>8</sub> , MgB <sub>10</sub> Br <sub>10</sub> (borazoles C01B 35/14) <b>[2, 2006.01]</b>	39/18	•		seeds [6, 2006.01]  • from a reaction mixture containing at least one
<b>C</b>	ala da mara tanka tana ti ka da tanka da atau ka	55/10			aluminium silicate or aluminosilicate of a clay type, e.g. kaolin or metakaolin or its exotherm
	nds characterised primarily by their physical or properties, rather than by their chemical				modification or allophane [6, 2006.01]
constituti	• •	39/20			Faujasite type, e.g. type X or Y <b>[6, 2006.01]</b>
		39/22			• Type X <b>[6, 2006.01]</b>
37/00	Compounds having molecular sieve properties but	39/24	•	•	• Type Y <b>[6, 2006.01]</b>
	not having base-exchange properties [6, 2006.01]	39/26	•	•	Mordenite type <b>[6, 2006.01]</b>
37/02	• Crystalline silica-polymorphs, e.g. silicalites <b>[6, 2006.01]</b>	39/28			Phillipsite or harmotome type, e.g. type B <b>[6, 2006.01]</b>
37/04	• Aluminophosphates [APO compounds] [6, 2006.01]	39/30	•	•	Erionite or offretite type, e.g. zeolite
37/06	Aluminophosphates containing other elements, e.g.				T [6, 2006.01]
	metals, boron [6, 2006.01]	39/32			Type L <b>[6, 2006.01]</b>
37/08	Silicoaluminophosphates [SAPO	39/34			Type ZSM-4 or type $\Omega$ <b>[6, 2006.01]</b>
39/00	compounds] [6, 2006.01]  Compounds having molecular sieve and base-	39/36			Pentasil type, e.g. types ZSM-5, ZSM-8 or ZSM-11 <b>[6, 2006.01]</b>
557 00	exchange properties, e.g. crystalline zeolites; Their	39/38			• Type ZSM-5 <b>[6, 2006.01]</b>
	preparation; After-treatment, e.g. ion-exchange or dealumination (treatment to modify the sorption	39/40			• using at least one organic template directing agent [6, 2006.01]
	properties, e.g. shaping using a binder, B01J 20/10;	39/42			Type ZSM-12 <b>[6, 2006.01]</b>
	treatment to modify the catalytic properties, e.g. combination of treatments to make the zeolites	39/44			Ferrierite type, e.g. types ZSM-21, ZSM-35 or ZSM-38 <b>[6, 2006.01]</b>
	appropriate to their use as a catalyst, B01J 29/04; treatment to improve the ion-exchange properties B01J 39/14) <b>[6, 2006.01]</b>	39/46	•	•	Other types characterised by their X-ray diffraction pattern and their defined composition <b>[6, 2006.01]</b>
	Note(s) [6]	39/48	•	•	<ul> <li>using at least one organic template directing agent [6, 2006.01]</li> </ul>
	In this group, the following term is used with the	39/50		7	eolites wherein inorganic bases or salts occlude

39/50

• Zeolites wherein inorganic bases or salts occlude channels in the lattice framework, e.g. sodalite,

cancrinite, nosean, hauynite [6, 2006.01]

"zeolites" means:

meaning indicated:

• • Sodalites [6, 2006.01] 39/52

39/54 Phosphates, e.g. APO or SAPO compounds [6, 2006.01]

AMMONIA; CYANOGEN; COMPOUNDS THEREOF (salts of oxyacids of halogens C01B 11/00; peroxides, salts of C01C peroxyacids C01B 15/00; thiosulfates, dithionites, polythionates C01B 17/64; compounds containing selenium or tellurium C01B 19/00; azides C01B 21/08; metal amides C01B 21/092; nitrites C01B 21/50; phosphides C01B 25/08; salts of oxyacids of phosphorus C01B 25/16; compounds containing silicon C01B 33/00; compounds containing boron C01B 35/00; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

### Note(s) [7, 2006.01]

Attention is drawn to Note (1) after class C01, which defines the last place priority rule applied in this class, i.e. in the range of subclasses C01B-C01G and within these subclasses.

2 Therapeutic activity of compounds is further classified in subclass A61P.

<ul> <li>1/00 Ammonia; Compounds thereof [1, 2006.01]</li> <li>1/02 • Preparation or separation of ammonia [1, 2006.01]</li> <li>1/04 • Preparation of ammonia by synthesis (preparation or purification of gas mixtures for ammonia synthesis C01B 3/02) [1, 2006.01]</li> </ul>	<ul> <li>Carbonates or bicarbonates of ammonium [1, 2006.01]</li> <li>Methods of preparing ammonium salts in general [1, 2006.01]</li> </ul>
<ul> <li>1/08 • Preparation of ammonia from nitrogenous organic substances [1, 2006.01]</li> <li>1/10 • Separation of ammonia from ammonia liquors,</li> </ul>	<ul><li>Note(s)</li><li>1. This group <u>does not cover</u> ammonium salts of complex acids (other than complex cyanides)</li></ul>
e.g. gas liquors [1, 2006.01]  1/12  • Separation of ammonia from gases and vapours [1, 2006.01]	containing a metal in the anion, which are covered by the relevant groups of subclasses C01D-C01G, according to the metal.  2. Salts of polybasic acids with ammonium and a
1/14 • • • Saturators [1, 2006.01]	metal as cations are classified as though the
1/16 • Halides of ammonium [1, 2006.01] 1/18 • Nitrates of ammonium [1, 2006.01]	ammonium were hydrogen.
1/10 • Nutrates of animolinum [1, 2006.01] 1/20 • Sulfides; Polysulfides [1, 2006.01]	3. Complex ammine salts are classified in the relevant groups of subclasses C01D-C01G,
1/22 • Sulfites of ammonium [1, 2006.01]	according to the metal.
<ul> <li>Sulfates of ammonium (C01C 1/14 takes precedence) [1, 2006.01]</li> </ul>	3/00 Cyanogen; Compounds thereof [1, 2006.01]
1/242 • Preparation from ammonia and sulfuric acid or sulfur trioxide [2, 2006.01]	<ul> <li>3/02 • Preparation of hydrogen cyanide [1, 2006.01]</li> <li>3/04 • Separation from gases [1, 2006.01]</li> </ul>
1/244 • Preparation by double decomposition of ammonium salts with sulfates <b>[2, 2006.01]</b>	<ul> <li>3/06 • Stabilisation of hydrogen cyanide [1, 2006.01]</li> <li>3/08 • Simple or complex cyanides of metals [1, 2006.01]</li> </ul>
1/245 • Preparation from compounds containing nitrogen and sulfur <b>[2, 2006.01]</b>	<ul> <li>3/10 • Simple alkali metal cyanides [1, 3, 2006.01]</li> <li>3/11 • Complex cyanides [3, 2006.01]</li> </ul>
1/246 • • • from sulfur-containing ammonium compounds [2, 2006.01]	<ul> <li>3/12 • Simple or complex iron cyanides [1, 2, 2006.01]</li> <li>3/14 • Cyanic acid; Salts thereof [1, 2006.01]</li> </ul>
1/247 • • • by oxidation with free oxygen <b>[2, 2006.01]</b>	3/16 • Cyanamide; Salts thereof [1, 2006.01]
1/248 • • Preventing coalescing or controlling form or size	3/18 • • Calcium cyanamide [1, 2006.01]
of crystals <b>[2, 2006.01]</b> 1/249 • Deacidifying the crystals <b>[2, 2006.01]</b>	3/20 • Thiocyanic acid; Salts thereof <b>[1, 2006.01]</b>

#### C01D COMPOUNDS OF ALKALI METALS, i.e. LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, CAESIUM, OR FRANCIUM

(metal hydrides C01B 6/00; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; sulfides or polysulfides C01B 17/22; 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; metal amides C01B 21/092; nitrites C01B 21/50; 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; cyanides C01C 3/08; salts of cyanic acid C01C 3/14; salts of cyanamide C01C 3/16; thiocyanates C01C 3/20; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal C22B; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

#### Note(s) [7, 2006.01]

- Attention is drawn to Note (1) after class C01, which defines the last place priority rule applied in this class, i.e. in the range of subclasses C01B-C01G and within these subclasses.
- Therapeutic activity of compounds is further classified in subclass A61P. 2.

1/00	Oxides or hydroxides of sodium, potassium, or alkali	7/02	• Preparation by double decomposition [1, 2006.01]
	metals in general [1, 2, 2006.01]	7/04	• • with a fluoride or silico-fluoride (C01D 1/24 takes
1/02	• Oxides [1, 2006.01]		precedence) [1, 2006.01]
1/04	• Hydroxides [1, 2006.01]	7/06	Preparation <u>via</u> sodium or potassium magnesium
1/20	Preparation by reacting oxides or hydroxides with	7/07	carbonate [1, 2006.01]
1 / 2 2	alkali metal salts [1, 2006.01]	7/07	Preparation from the hydroxides [2, 2006.01]     Preparation from or via graph compounds of cadium.
1/22 1/24	• • with carbonates or bicarbonates [1, 2006.01]	7/08	<ul> <li>Preparation from or <u>via</u> cyano compounds of sodium or potassium (C01D 1/26 takes</li> </ul>
1/24	• • • from or <u>via</u> fluorides or silico- fluorides [1, 2006.01]		precedence) [1, 2006.01]
1/26	<ul> <li>• Preparation from or <u>via</u> cyano compounds, e.g. cyanides, cyanamides [1, 2006.01]</li> </ul>	7/10	• Preparation of bicarbonates from carbonates (ammonia-soda process C01D 7/18) [1, 2006.01]
1/28	• • Purification; Separation [1, 2006.01]	7/12	Preparation of carbonates from
1/30	• • • by crystallisation [1, 2006.01]		bicarbonates [1, 2006.01]
1/32	• • • by adsorption or precipitation [1, 2006.01]	7/14	<ul> <li>Preparation of sesquicarbonates [1, 2006.01]</li> </ul>
1/34	• • • with selective solvents <b>[1, 2006.01]</b>	7/16	Preparation from compounds of sodium or potassium
1/36	• • • by oxidation [1, 2006.01]	7/10	with amines and carbon dioxide [1, 2006.01]
1/38	• • • by dialysis [1, 2006.01]	7/18	<ul> <li>Preparation by the ammonia-soda process [1, 2006.01]</li> </ul>
1/40	• • • by electrolysis <b>[1, 2006.01]</b>	7/22	• Purification [1, 2006.01]
1/42	• • Concentration; Dehydration [1, 2006.01]	7/24	• • Crystallisation [1, 2006.01]
1/44	Preparation in the form of granules, pieces, or	7/26	<ul> <li>by precipitation or adsorption [1, 2006.01]</li> </ul>
	other shaped products [1, 2006.01]	7/28	<ul> <li>with selective solvents [1, 2006.01]</li> </ul>
3/00	Halides of sodium, potassium, or alkali metals in	7/30	• • by oxidation [1, 2006.01]
5,00	general [1, 2, 2006.01]	7/32	• • by dialysis [1, 2006.01]
3/02	• Fluorides [1, 2006.01]	7/34	• • by electrolysis [1, 2006.01]
3/04	• Chlorides [1, 2006.01]	7/35	<ul> <li>Varying the content of water of crystallisation or the</li> </ul>
3/06	Preparation by working up brines, seawater or		specific gravity [2, 2006.01]
	spent lyes [1, 2006.01]	7/37	• • Densifying sodium carbonate [2, 2006.01]
3/08	<ul> <li>Preparation by working up natural or industrial</li> </ul>	7/38	• Preparation in the form of granules, pieces, or other
	salt mixtures or siliceous minerals [1, 2006.01]		shaped products <b>[1, 2006.01]</b>
3/10	• Bromides [1, 2006.01]	7/40	<ul> <li>Influencing the crystallisation process [1, 2006.01]</li> </ul>
3/12	• Iodides [1, 2006.01]	7/42	Preventing the absorption of moisture or
3/14	• Purification [1, 2006.01]		caking <b>[1, 2006.01]</b>
3/16	• • by precipitation or adsorption [1, 2006.01]	9/00	Nitrates of sodium, potassium, or alkali metals in
3/18	• • with selective solvents [1, 2006.01]	3,00	general [1, 2, 2006.01]
3/20	• • by melting [1, 2006.01]	9/02	Preparation by working-up natural salt
3/22	<ul> <li>Preparation in the form of granules, pieces, or other shaped products [1, 2006.01]</li> </ul>		mixtures [1, 2006.01]
3/24	<ul> <li>• Influencing the crystallisation process [1, 2006.01]</li> </ul>	9/04	<ul> <li>Preparation with liquid nitric acid [1, 2006.01]</li> </ul>
3/24	Preventing the absorption of moisture or caking of	9/06	<ul> <li>Preparation with gaseous nitric acid or nitrogen</li> </ul>
3/20	the crystals [1, 2006.01]		oxides [1, 2006.01]
		9/08	• Preparation by double decomposition [1, 2006.01]
5/00	Sulfates or sulfites of sodium, potassium, or alkali	9/10	• • with ammonium nitrate [1, 2006.01]
	metals in general [1, 2, 2006.01]	9/12	• • with nitrates of magnesium, calcium, strontium, or
5/02	Preparation of sulfates from alkali metal salts and	0/14	barium [1, 2006.01]
	sulfuric acid or bisulfates; Preparation of bisulfates [1, 2006.01]	9/14	• • of salts of potassium with sodium nitrate [1, 2006.01]
5/04	<ul> <li>Preparation of sulfates with the aid of sulfurous acid</li> </ul>	9/16	• Purification [1, 2006.01]
3704	or sulfites, e.g. Hargreaves process [1, 2006.01]	9/18	<ul> <li>Preparation in the form of shaped products, e.g.</li> </ul>
5/06	Preparation of sulfates by double	3/10	granules [1, 2006.01]
	decomposition <b>[1, 2006.01]</b>	9/20	<ul> <li>Preventing the absorption of moisture or</li> </ul>
5/08	with each other or with ammonium		caking <b>[1, 2006.01]</b>
	sulfate <b>[1, 2006.01]</b>	42.400	
5/10	<ul> <li>with sulfates of magnesium, calcium, strontium, or barium [1, 2006.01]</li> </ul>	13/00	Compounds of sodium or potassium not provided for elsewhere [2, 2006.01]
5/12	Preparation of double sulfates of magnesium with	15/00	Lithium compounds [2, 2006.01]
	sodium or potassium [1, 2, 2006.01]	15/02	• Oxides; Hydroxides [2, 2006.01]
5/14	• Preparation of sulfites (C01D 5/04 takes	15/04	• Halides [2, 2006.01]
5/1 <i>6</i>	precedence) [1, 2006.01]	15/06	• Sulfates; Sulfites [2, 2006.01]
5/16 5/18	<ul><li>Purification [1, 2006.01]</li><li>Dehydration [1, 2006.01]</li></ul>	15/08	• Carbonates; Bicarbonates [2, 2006.01]
2/10	Denymanon [1, 2000,01]	15/10	• Nitrates [2, 2006.01]
7/00	Carbonates of sodium, potassium, or alkali metals in		
	general [1, 2, 2006.01]	17/00	Rubidium, caesium, or francium compounds [2, 2006.01]

COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RARE EARTH METALS (metal hydrides 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; metal amides C01B 21/092; nitrites C01B 21/50; 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; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal C22B; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

### Note(s) [7, 2006.01]

- 1. Attention is drawn to Note (1) after class C01, which defines the last place priority rule applied in this class, i.e. in the range of subclasses C01B-C01G and within these subclasses.
- 2. Therapeutic activity of compounds is further classified in subclass A61P.

1/00	Methods of preparing compounds of the metals beryllium, magnesium, aluminium, calcium,	7/02 • Aluminium oxide; Aluminium hydroxide; Aluminates [1, 2006.01, 2022.01]
	strontium, barium, radium, thorium, or the rare	7/021 • • After-treatment of oxides or hydroxides <b>[2022.01]</b>
	earths, in general [1, 2006.01]	7/022 • • • Classification <b>[2022.01]</b>
3/00	Compounds of beryllium [1, 2006.01]	7/023 • • • Grinding, deagglomeration or disintegration [2022.01]
3/02	• Oxides; Hydroxides <b>[3, 2006.01]</b>	7/025 • • • Granulation or agglomeration <b>[2022.01]</b>
5/00	Compounds of magnesium [1, 2006.01]	7/026 • • • Making or stabilising dispersions <b>[2022.01]</b>
5/02	• Magnesia [1, 2006.01]	7/027 • • • Treatment involving fusion or
5/04	<ul> <li>by oxidation of metallic magnesium [1, 2006.01]</li> </ul>	vaporisation [2022.01]
5/06	by thermal decomposition of magnesium	7/028 • • Beta-aluminas <b>[2022.01]</b>
37 00	compounds (calcining magnesite or dolomite C04B 2/10) [1, 2006.01]	7/04 • Preparation of alkali metal aluminates; Aluminium oxide or hydroxide therefrom (C01F 7/028 takes
5/08	• • • by calcining magnesium hydroxide [1, 2006.01]	precedence) [1, 2006.01, 2022.01]
5/10	• • by thermal decomposition of magnesium	7/043 • • • Lithium aluminates <b>[2022.01]</b>
	chloride with water vapour [1, 2006.01]	7/046 • • • Stabilisation of aluminates <b>[2022.01]</b>
5/12	<ul> <li>• by thermal decomposition of magnesium</li> </ul>	7/06 • • • by treating aluminous minerals or waste-like
	sulfate, with or without reduction [1, 2006.01]	raw materials with alkali hydroxide, e.g. leaching of bauxite according to the Bayer
5/14	<ul> <li>Magnesium hydroxide [1, 2006.01]</li> </ul>	process (obtaining aluminium oxide or
5/16	• • by treating magnesia, e.g. calcined dolomite, with	hydroxide from the resulting aluminate solution
	water or solutions of salts not containing	C01F 7/14) [1, 2006.01, 2022.01]
E /DO	magnesium [1, 2006.01]	7/0606 • • • • Making-up the alkali hydroxide solution
5/20	<ul> <li>by precipitation from solutions of magnesium salts with ammonia [1, 2006.01]</li> </ul>	from recycled spent liquor [2022.01]
5/22	from magnesium compounds with alkali	7/0613 • • • Pretreatment of the minerals, e.g.
3/22	hydroxides or alkaline earth oxides or	grinding <b>[2022.01]</b>
	hydroxides [1, 2006.01]	7/062 • • • • Digestion <b>[2022.01]</b>
5/24	<ul> <li>Magnesium carbonates [1, 2006.01]</li> </ul>	7/0626 • • • • Processes making use of tube digestion
5/26	<ul> <li>Magnesium halides [1, 2006.01]</li> </ul>	only <b>[2022.01]</b>
5/28	• • Fluorides [1, 2006.01]	7/0633 • • • • characterised by the use of
5/30	• • Chlorides [1, 2006.01]	additives [2022.01]
5/32	Preparation of anhydrous magnesium chloride by chlorinating magnesium	7/064 • • • • • Apparatus for digestion, e.g. digestor vessels or heat exchangers [2022.01]
	compounds [1, 2006.01]	7/0646 • • • Separation of the insoluble residue, e.g. of
5/34	Dehydrating magnesium chloride containing	red mud <b>[2022.01]</b>
5/54	water of crystallisation [1, 2006.01]	7/0653 • • • • characterised by the flocculant added to
5/36	• • Bromides [1, 2006.01]	the slurry (final clarification of the aluminate solution C01F 7/47) [2022.01]
5/38	• Magnesium nitrates [1, 2006.01]	•
5/40	Magnesium sulfates (double sulfates of magnesium	7/066 • • • • Treatment of the separated residue [2022.01]
	with sodium or potassium C01D 5/12, with other	7/0666 • • • Process control or regulation [2022.01]
	alkali metals C01D 15/06,	7/0673 • • • from phosphate-containing minerals <b>[2022.01]</b>
	C01D 17/00) <b>[1, 3, 2006.01]</b>	7/068 • • • from carbonate-containing minerals, e.g.
5/42	<ul> <li>Magnesium sulfites [1, 2006.01]</li> </ul>	dawsonite [2022.01]
7/00	Compounds of aluminium [1, 2000 04, 2022 04]	7/0686 • • • • from sulfate-containing minerals, e.g.
7/00	Compounds of aluminium [1, 2006.01, 2022.01]	alunite [2022.01]

7/0693	B • • • • from waste-like raw materials, e.g. fly ash or Bayer calcination dust [2022.01]	7/422 • • • by oxidation with a gaseous oxidator at a high temperature <b>[2022.01]</b>
7/08	<ul> <li>• by treating aluminous minerals with sodium</li> </ul>	7/424 • • • using a plasma <b>[2022.01]</b>
	carbonate, e.g. sinter processes (C01F 7/0613, C01F 7/066 take	7/426 • • • by applying mechanical energy to solid aluminium at a low temperature [2022.01]
	precedence) [1, 2006.01, 2022.01]	7/428 • • • by oxidation in an aqueous solution <b>[2022.01]</b>
7/085	• • • according to the lime-sinter	7/44 • • Dehydration of aluminium oxide or hydroxide, i.e.
7/10	process [2022.01]  • • by treating aluminous minerals with alkali	all conversions of one form into another involving a loss of water [1, 2006.01, 2022.01]
	sulfates and reducing agents [1, 2006.01]	7/441 • • • by calcination [ <b>2022.01</b> ]
7/12	Alkali metal aluminates from alkaline earth	7/442 • • • in presence of a calcination
	metal aluminates [1, 2006.01]	additive [2022.01]
7/14	<ul> <li>• Aluminium oxide or hydroxide from alkali</li> </ul>	7/444 • • • Apparatus therefor <b>[2022.01]</b>
	metal aluminates [1, 2006.01, 2022.01]	7/445 • • • making use of a fluidised bed <b>[2022.01]</b>
7/141	• • • from aqueous aluminate solutions by	7/447 • • • by wet processes <b>[2022.01]</b>
	neutralisation with an acidic agent [2022.01]	7/448 • • • using superatmospheric pressure, e.g.
7/142	• • • • with carbon dioxide [2022.01]	hydrothermal conversion of gibbsite into
7/144	• • • • from aqueous aluminate solutions by	boehmite [2022.01]
	precipitation due to cooling, e.g. as part of	7/46 • • Purification of aluminium oxide, aluminium
7/145	the Bayer process [2022.01]  • • • characterised by the use of a crystal	hydroxide or aluminates (C01F 7/028 takes
//145	growth modifying agent other than	precedence) [1, 5, 2006.01]
	aluminium hydroxide seed [2022.01]	7/47 • • • of aluminates, e.g. removal of compounds of Si,
7/147	• • • • • Apparatus for precipitation [2022.01]	Fe, Ga or of organic compounds from Bayer process liquors [5, 2006.01, 2022.01]
7/148	• • • • Separation of the obtained hydroxide, e.g.	
.,	by filtration or dewatering [2022.01]	7/473 • • • • Removal of organic compounds, e.g. sodium oxalate [2022.01]
7/16	Preparation of alkaline-earth metal aluminates or	7/476 • • • • by oxidation [2022.01]
	magnesium aluminates; Aluminium oxide or	7/48 • Halides, with or without other cations besides
	hydroxide therefrom (C01F 7/028 takes	aluminium [1, 2006.01]
	precedence) [1, 2006.01, 2022.01]	7/50 • • Fluorides [1, 2006.01]
7/162	Magnesium aluminates [2022.01]	7/52 • • Double compounds containing both fluorine
7/164	• • • Calcium aluminates [2022.01]	and other halide groups [1, 2006.01]
7/166	• • • Strontium aluminates [2022.01]	7/54 • • Double compounds containing both aluminium
7/168	Barium aluminates [2022.01]	and alkali metals or alkaline earth
7/18	Aluminium oxide or hydroxide from alkaline	metals [1, 2006.01]
7/20	earth metal aluminates [1, 2006.01]	7/56 • • Chlorides (containing fluorine
7/20	<ul> <li>Preparation of aluminium oxide or hydroxide from aluminous ores using acids or salts [1, 2006.01]</li> </ul>	C01F 7/52) [1, 3, 2006.01, 2022.01]
7/22	• • with halides or halogen acids [1, 2006.01]	7/57 • • • Basic aluminium chlorides, e.g. polyaluminium chlorides [2022.01]
	• • • with nitric acid or nitrogen oxides [1, 2006.01]	7/58 • • • Preparation of anhydrous aluminium
7/26	• • • with sulfuric acids or sulfates [1, 2006.01]	chloride [1, 2006.01]
7/28	• • • with sulfurous acid [1, 2006.01]	7/60 • • • from oxygen-containing aluminium
7/30	Preparation of aluminium oxide or hydroxide by	compounds [1, 2006.01]
	thermal decomposition or by hydrolysis or	7/62 • • • Purification [1, 2006.01]
	oxidation of aluminium	7/64 • • Bromides (containing fluorine
	compounds [1, 2006.01, 2022.01]	C01F 7/52) [1, 3, 2006.01]
7/302	Hydrolysis or oxidation of gaseous aluminium	7/66 • Nitrates, with or without other cations besides
= 1001	compounds in the gaseous phase [2022.01]	aluminium [1, 3, 2006.01]
7/304	• • • of organic aluminium compounds [2022.01]	7/68 • Aluminium compounds containing
7/306	• • • Thermal decomposition of hydrated chlorides,	sulfur [1, 3, 2006.01]
	e.g. of aluminium trichloride hexahydrate [2022.01]	7/70 • • Sulfides [1, 2006.01]
7/308	• • Thermal decomposition of nitrates [2022.01]	7/72 • • Sulfites [1, 2006.01]
7/32	Thermal decomposition of sulfates including	7/74 • Sulfates [1, 2006.01, 2022.01]
7732	complex sulfates, e.g. alums [1, 2006.01]	7/741 • • • Preparation from elemental aluminium or elemental aluminium containing materials, e.g.
7/34	Preparation of aluminium hydroxide by	foil or dross [2022.01]
	precipitation from solutions containing aluminium	7/743 • • • Preparation from silicoaluminious materials,
	salts [1, 2006.01]	e.g. clays or bauxite [2022.01]
7/36	• • • from organic aluminium salts [1, 2006.01]	7/745 • • • Preparation from alums, e.g. alunite <b>[2022.01]</b>
7/38	Preparation of aluminium oxide by thermal	7/746 • • • After-treatment, e.g. dehydration or
	reduction of aluminous minerals [1, 2006.01]	stabilisation [2022.01]
7/40	• • • in the presence of aluminium	7/748 • • • Purification <b>[2022.01]</b>
7/40	sulfide [1, 2006.01]	7/76 • • Double salts, i.e. compounds containing,
7/42	<ul> <li>Preparation of aluminium oxide or hydroxide from metallic aluminium, e.g. by</li> </ul>	besides aluminium and sulfate ions, only other
	oxidation [1, 2006.01, 2022.01]	cations, e.g. alums [1, 2006.01, 2022.01]
	,	

7/762	• • • Ammonium or alkali metal aluminium	11/48	• Sulfites [1, 2006.01]
7/765	sulfates [2022.01]  • • • • Ammonium aluminium sulfates [2022.01]	13/00	Compounds of radium [1, 2006.01]
7/767	• • • Alkaline earth metal aluminium	15/00	Compounds of thorium [1, 2006.01]
7/77	sulfates [2022.01]  • Aluminium carbonates [2022.01]		-
7/78	Compounds containing aluminium and two or more	17/00	Compounds of rare earth metals [1, 2006.01, 2020.01]
	other elements, with the exception of oxygen and hydrogen (aluminates C01F 7/02; compounds		Note(s) [2020.01]
	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) [2022.01]		<ul> <li>In this group, the following expression is used with the meaning indicated:</li> <li>"rare earth metals" means elements from the group of the lanthanides as well as scandium or yttrium, taken alone or in</li> </ul>
7/782	<ul> <li>containing carbonate ions, e.g. dawsonite [2022.01]</li> </ul>		combination. 2. When classifying a compound in groups
7/785	<ul> <li>Layered double hydroxide, e.g. comprising nitrate, sulfate or carbonate ions as intercalating anions [2022.01]</li> <li>Hydrotalcite [2022.01]</li> </ul>		C01F 17/20-C01F 17/38, then its specific preparation or treatment must also be classified in groups C01F 17/10-C01F 17/17 as long as the compound is characterised by its preparation or
7/786	<ul> <li>containing, besides aluminium, only anions, e.g.         Al[OH]<sub>x</sub>Cl<sub>y</sub>[SO<sub>4</sub>]<sub>z</sub> (mixed halides         C01F 7/48) [2022.01]</li> </ul>	17/10	<ul><li>treatment, and vice versa.</li><li>Preparation or treatment, e.g. separation or purification [2020.01]</li></ul>
7/788	Ammonium aluminium fluorides, e.g. ammonium hexafluoroaluminate [2022.01]	17/13	• by using ion exchange resins, e.g. chelate resins [2020.01]
		17/17	• • involving a liquid-liquid extraction [2020.01]
11/00	Compounds of calcium, strontium, or barium (C01F 7/00 takes precedence) [1, 3, 2006.01]	17/20	<ul> <li>Compounds containing only rare earth metals as the metal element [2020.01]</li> </ul>
11/02	<ul> <li>Oxides or hydroxides (production of lime C04B 2/00) [1, 2006.01]</li> </ul>		• • oxide or hydroxide being the only anion [2020.01]
11/04	• • by thermal decomposition <b>[1, 2006.01]</b>		<ul><li>• Scandium oxides or hydroxides [2020.01]</li><li>• Yttrium oxides or hydroxides [2020.01]</li></ul>
11/06	• • • of carbonates [1, 2006.01]		Oxides or hydroxides of lanthanides [2020.01]
11/08	• • by reduction of sulfates <b>[1, 2006.01]</b>		Lanthanum oxides or hydroxides [2020.01]
11/10	• • from sulfides <b>[1, 2006.01]</b>		• • • • Cerium oxides or hydroxides [2020.01]
11/12	• • from silicates <b>[1, 2006.01]</b>		containing two or more rare earth metals, e.g.
11/16	• • Purification [1, 2006.01]	177211	NdPrO <sub>3</sub> or LaNdPrO <sub>3</sub> [2020.01]
11/18	• Carbonates [1, 2006.01]	17/247	• • Carbonates [2020.01]
11/20	• Halides [1, 2006.01]		• • Halides [2020.01]
11/22	• • Fluorides [1, 2006.01]		• • • Oxyhalides [2020.01]
11/24	• • Chlorides [1, 2006.01]	17/265	• • • Fluorides [2020.01]
11/26	• • • from sulfides <b>[1, 2006.01]</b>		• • • Chlorides [2020.01]
11/28	<ul> <li>• • by chlorination of alkaline earth metal</li> </ul>	17/276	• • Nitrates [2020.01]
	compounds [1, 2006.01]	17/282	• • Sulfates [2020.01]
11/30	Concentrating; Dehydrating; Preventing the	17/288	• • Sulfides [2020.01]
11 /22	absorption of moisture or caking [1, 2006.01]	17/294	• • • Oxysulfides [2020.01]
11/32	• • Purification [1, 2006.01]	17/30	<ul> <li>Compounds containing rare earth metals and at least</li> </ul>
11/34	• Bromides [1, 2006.01]		one element other than a rare earth metal, oxygen or
11/36	Nitrates [1, 2006.01]     Dropostion with pituic acid or pituagen		hydrogen, e.g. La <sub>4</sub> S <sub>3</sub> Br <sub>6</sub> (C01F 17/247-C01F 17/294
11/38	<ul> <li>Preparation with nitric acid or nitrogen oxides [1, 2006.01]</li> </ul>	17/22	take precedence) [2020.01]
11/40	• • Preparation by double decomposition with	17/32	<ul> <li>oxide or hydroxide being the only anion, e.g. NaCeO<sub>2</sub> or Mg<sub>x</sub>Ca<sub>y</sub>EuO [2020.01]</li> </ul>
11/42	nitrates [1, 2006.01]  • Double salts (with magnesium	17/34	<ul> <li>Aluminates, e.g. YAlO<sub>3</sub> or Y<sub>3</sub>.</li> <li>xGd<sub>x</sub>Al<sub>5</sub>O<sub>12</sub> [2020.01]</li> </ul>
11/44	C01F 5/38) [1, 2006.01]	17/36	<ul> <li>halogen being the only anion, e.g.</li> </ul>
11/44	<ul> <li>Concentrating; Crystallising; Dehydrating;</li> <li>Preventing the absorption of moisture or</li> </ul>	15/20	NaYF <sub>4</sub> [2020.01]
	caking [1, 2006.01]	17/38	• • sulfur being the only anion, e.g.
11/46	• Sulfates (dehydration of gypsum C04B 11/02) <b>[1, 2006.01]</b>		CaLa <sub>2</sub> S <sub>4</sub> <b>[2020.01]</b>

**C01G** COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES C01D OR C01F (metal hydrides C01B 6/00; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; 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; metal amides C01B 21/092; nitrites C01B 21/50; 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; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal C21B, C22B; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

### Note(s) [7, 2006.01]

- Attention is drawn to Note (1) after class C01, which defines the last place priority rule applied in this class, i.e. in the range of subclasses C01B-C01G and within these subclasses.
- 2. Therapeutic activity of compounds is further classified in subclass A61P.

#### **Subclass index**

GENERAL METHODS OF PREPARATION	1/00
METALLIC COMPOUNDS, IN ALPHABETICAL ORDER OF THE SYMBOL FOR THE METAL	
Ag Silver	5/00
As Arsenic	28/00
Au Gold	7/00
Bi Bismuth	29/00
Cd Cadmium	11/00
Co Cobalt	51/00
Cr Chromium.	37/00
Cu Copper	3/00
Fe Iron	49/00
Ga Gallium	15/00
Ge Germanium	17/00
Hf Hafnium	27/00
Hg Mercury	13/00
In Indium.	15/00
Ir Iridium	55/00
Mn Manganese	45/00
Mo Molybdenum	39/00
Nb Niobium	33/00
Ni Nickel	53/00
Os Osmium	55/00
Pb Lead	21/00
Pd Palladium	55/00
Pt Platinum	55/00
Re Rhenium	47/00
Rh Rhodium	55/00
Ru Ruthenium	55/00
Sb Antimony	30/00
Sn Tin	19/00
Ta Tantalum	35/00
Ti Titanium	23/00
Tl Thallium	15/00
U Uranium	43/00
V Vanadium	31/00
W Tungsten	41/00
Zn Zinc	9/00
Zr Zirconium	
COMPOUNDS OF TRANSURANIC ELEMENTS	56/00
COMPOUNDS OF METALS NOT COVERED BY THE PRECEDING GROUPS	99/00

1/00 Methods of preparing compounds of metals not covered by subclasses C01B, C01C, C01D, C01F, in **general** (electrolytic production of inorganic compounds C25B 1/00) [1, 2, 2006.01]

1/02 • Oxides [1, 2006.01]

• Carbonyls [1, 2006.01] 1/04

1/06 • Halides [1, 2006.01]

1/08 • Nitrates [1, 2006.01]

1/10 Sulfates [1, 2006.01]

Sulfides [1, 2006.01] 1/12

1/14 • Sulfites [1, 2006.01]

3/00	Compounds of copper [1, 2006.01]	25/00	Compounds of zirconium [1, 2006.01]
3/02	• Oxides; Hydroxides [1, 2006.01]	25/02	• Oxides [1, 2006.01]
3/04	• Halides [1, 2006.01]	25/04	<ul> <li>Halides [1, 2006.01]</li> </ul>
3/05	<ul> <li>Chlorides [3, 2006.01]</li> </ul>	25/06	• Sulfates [1, 2006.01]
3/06	• • Oxychlorides [1, 2006.01]	27/00	Compounds of hafnium [1, 2006.01]
3/08	• Nitrates [1, 2006.01]	27/00	• Oxides [1, 2006.01]
3/10	• Sulfates [1, 2006.01]	27/02	• Halides [1, 2006.01]
3/12	• Sulfides [1, 2006.01]	27/04	• Sulfates [1, 2006.01]
3/14	• Complexes with ammonia [1, 2006.01]	27700	Surfaces [1, 2000.01]
5/00	Compounds of silver [1, 2006.01]	28/00	Compounds of arsenic [3, 2006.01]
5/02	• Halides [3, 2006.01]	28/02	• Arsenates; Arsenites [3, 2006.01]
		29/00	Compounds of bismuth [1, 2006.01]
7/00	Compounds of gold [1, 2006.01]	25700	compounds of bisindin [1, 2000.01]
9/00	Compounds of zinc [1, 2006.01]	30/00	Compounds of antimony [3, 2006.01]
9/02	• Oxides; Hydroxides [1, 3, 2006.01]	30/02	• Antimonates; Antimonites [3, 2006.01]
9/03	<ul> <li>Processes of production using dry methods, e.g.</li> </ul>	31/00	Compounds of vanadium [1, 2006.01]
	vapour phase processes [3, 2006.01]	31/02	• Oxides [3, 2006.01]
9/04	• Halides [1, 2006.01]	31/04	• Halides [3, 2006.01]
9/06	• Sulfates [1, 2006.01]	51704	11unues [5, 2000,01]
9/08	• Sulfides [1, 2006.01]	33/00	Compounds of niobium [1, 2006.01]
11/00	Compounds of cadmium [1, 2006.01]	35/00	Compounds of tantalum [1, 2006.01]
11/02	• Sulfides [3, 2006.01]	35/02	• Halides [3, 2006.01]
		557 02	Tamaco [6, 2000:01]
13/00	Compounds of mercury [1, 2006.01]	37/00	Compounds of chromium [1, 2006.01]
13/02	• Oxides [1, 2006.01]	37/02	• Oxides or hydrates thereof [1, 2006.01]
13/04	• Halides [1, 2006.01]	37/027	• • Chromium dioxide [3, 2006.01]
15/00	Compounds of gallium, indium, or	37/033	• • Chromium trioxide; Chromic acid [3, 2006.01]
13/00	thallium [1, 2006.01]	37/04	<ul> <li>Chromium halides [1, 2006.01]</li> </ul>
		37/06	• • Chromylhalides [1, 2006.01]
17/00	Compounds of germanium [1, 2006.01]	37/08	<ul> <li>Chromium sulfates [1, 2006.01]</li> </ul>
17/02	• Germanium dioxide <b>[1, 2006.01]</b>	37/10	• • Chrome alum [1, 2006.01]
17/04	• Halides of germanium [1, 2006.01]	37/14	• Chromates; Bichromates [1, 2006.01]
19/00	Compounds of tin [1, 2006.01]	39/00	Compounds of molybdenum [1, 2006.01]
19/02	• Oxides [1, 2006.01]	39/02	• Oxides; Hydroxides [3, 2006.01]
19/04	• Halides [1, 2006.01]	39/04	• Halides [3, 2006.01]
19/06	<ul> <li>Stannous chloride [1, 2006.01]</li> </ul>	39/06	• Sulfides [3, 2006.01]
19/08	• • Stannic chloride [1, 2006.01]		
	,	41/00	Compounds of tungsten [1, 2006.01]
21/00	Compounds of lead [1, 2006.01]	41/02	• Oxides; Hydroxides [3, 2006.01]
21/02	• Oxides [1, 2006.01]	41/04	• Halides [3, 2006.01]
21/04	• • Lead suboxide [Pb <sub>2</sub> O] [1, 2006.01]	43/00	Compounds of uranium [1, 2006.01]
21/06	• Lead monoxide [PbO] [1, 2006.01]	43/01	• Oxides; Hydroxides [3, 2006.01]
21/08	• • Lead dioxide [PbO <sub>2</sub> ] [1, 2006.01]	43/025	<ul> <li>Uranium dioxide [3, 2006.01]</li> </ul>
21/10	<ul> <li>Red lead [Pb<sub>3</sub>O<sub>4</sub>] [1, 2006.01]</li> </ul>	43/023	• Halides of uranium [1, 2006.01]
21/12	• Hydroxides [1, 2006.01]	43/04	• Fluorides [1, 2006.01]
21/14	• Carbonates [1, 2006.01]	43/08	• Chlorides [1, 2006.01]
21/16	• Halides [1, 2006.01]	43/00	• Bromides [1, 2006.01]
21/18	• Nitrates [1, 2006.01]	43/12	• • Iodides [1, 2006.01]
21/20	• Sulfates [1, 2006.01]	107 12	1001005 [1) 200001]
21/21	• Sulfides [3, 2006.01]	45/00	Compounds of manganese [1, 2006.01]
21/22	• Plumbates; Plumbites [1, 2006.01]	45/02	• Oxides; Hydroxides [1, 2006.01]
23/00	Compounds of titanium [1, 2006.01]	45/04	• Carbonyls [1, 2006.01]
23/00	• Halides of titanium [1, 2006.01]	45/06	• Halides [1, 2006.01]
23/02	• Oxides; Hydroxides [1, 3, 2006.01]	45/08	• Nitrates [1, 2006.01]
23/04	• Titanium dioxide [3, 2006.01]	45/10	• Sulfates [1, 2006.01]
23/053	Producing by wet processes, e.g. hydrolysing	45/12	• Manganates; Permanganates [1, 2006.01]
_0,000	titanium salts [3, 2006.01]	45 /00	C
23/07	• • Producing by vapour phase processes, e.g.	47/00	Compounds of rhenium [1, 2006.01]
- '	halide oxidation [3, 2006.01]	49/00	<b>Compounds of iron [1, 2006.01]</b>
23/08	• • • Drying; Calcining [1, 3, 2006.01]	49/02	• Oxides; Hydroxides [1, 2006.01]

49/04 49/06 49/08 49/10 49/12 49/14 49/16	<ul> <li>Ferrous oxide [FeO] [1, 2006.01]</li> <li>Ferric oxide [Fe<sub>2</sub>O<sub>3</sub>] [1, 2006.01]</li> <li>Ferroso-ferric oxide [Fe<sub>3</sub>O<sub>4</sub>] [1, 2006.01]</li> <li>Halides [1, 2006.01]</li> <li>Sulfides [1, 2006.01]</li> <li>Carbonyls [1, 2006.01]</li> </ul>	53/00 53/02 53/04 53/06 53/08 53/09 53/10	Compounds of nickel [1, 2006.01]  Carbonyls [1, 2006.01]  Oxides; Hydroxides [1, 2006.01]  Carbonates [1, 2006.01]  Halides [1, 2006.01]  Chlorides [3, 2006.01]  Sulfates [1, 2006.01]
<b>51/00</b> 51/02 51/04	<ul> <li>Compounds of cobalt [1, 2006.01]</li> <li>Carbonyls [1, 2006.01]</li> <li>Oxides; Hydroxides [1, 2006.01]</li> </ul>	53/11 53/12 <b>55/00</b>	<ul> <li>Sulfides [3, 2006.01]</li> <li>Complexes with ammonia [1, 2006.01]</li> <li>Compounds of ruthenium, rhodium, palladium,</li> </ul>
51/06 51/08 51/10	<ul> <li>Carbonates [1, 2006.01]</li> <li>Halides [1, 2006.01]</li> <li>Sulfates [1, 2006.01]</li> </ul>	56/00	osmium, iridium, or platinum [1, 2006.01]  Compounds of transuranic elements [1, 2006.01]
51/12	• Complexes with ammonia [1, 2006.01]	99/00	Subject matter not provided for in other groups of this subclass [2010.01]