SECTION C — CHEMISTRY; METALLURGY

C01 INORGANIC CHEMISTRY

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	21/00
PHOSPHORUS, COMPOUNDS THEREOF	25/00
CARBON, COMPOUNDS THEREOF	32/00
SILICON, COMPOUNDS THEREOF	33/00
SELENIUM OR TELLURIUM; BORON	
NOBLE GASES	
COMPOUNDS HAVING MOLECULAR SIEVE PROPERTIES BUT NOT HAVING BASE-EXCI	HANGE
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]
- 3/02 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 • • using the fluidised bed technique [3, 2006.01]
- by reaction of gaseous or liquid organic compounds with gasifying agents, e.g. water, carbon dioxide, air [3, 2006.01]
- 3/34 • by reaction of hydrocarbons with gasifying agents [3, 2006.01]
- 3/36 • using oxygen or mixtures containing oxygen as gasifying agents [3, 2006.01]
- 3/38 • using catalysts [3, 2006.01]
- 3/40 • • characterised by the catalyst **[3, 2006.01]**
- 3/42 • • using moving solid particles **[3, 2006.01]**
- 3/44 • • using the fluidised bed technique [3, 2006.01]

3/46	• • • using discontinuously preheated non-moving solid materials, e.g. blast and	Halogens	s; Compounds thereof
	run [3, 2006.01]	7/00	Halogens; Halogen acids [1, 2006.01]
3/48	• • • followed by reaction of water vapour with	7/01	Chlorine; Hydrogen chloride [2, 2006.01]
	carbon monoxide [3, 2006.01]	7/03	• • Preparation from chlorides [2, 3, 2006.01]
3/50	 Separation of hydrogen or hydrogen containing gases from gaseous mixtures, e.g. purification (C01B 3/14 	7/04	 Preparation of chlorine from hydrogen chloride [1, 3, 2006.01]
	takes precedence) [3, 2006.01]	7/05	 Preparation from ammonium
3/52	• • by contacting with liquids; Regeneration of used		chloride [2, 3, 2006.01]
2/54	liquids [3, 2006.01]	7/07	• • Purification [2, 3, 2006.01]
3/54 3/56	• including a catalytic reaction [3, 2006.01]• by contacting with solids; Regeneration of used	7/075	• • • of liquid chlorine [2, 3, 2006.01]
3/30	solids [3, 2006.01]	7/09	• Bromine; Hydrogen bromide [2, 2006.01]
3/58	• • • including a catalytic reaction [3, 2006.01]	7/13	• Iodine; Hydrogen iodide [2, 2006.01]
3,30	metaling a cataly ac reaction [6, 200002]	7/14	• • Iodine [1, 2, 2006.01]
4/00	Hydrogen isotopes; Inorganic compounds thereof	7/16 7/19	• • Preparation from seaweed [1, 2, 2006.01]• Fluorine; Hydrogen fluoride [2, 2006.01]
	prepared by isotope exchange, e.g. $NH_3 + D_2 \rightarrow NH_2D$	7/19	 Fluorine, Hydrogen habitate [2, 2006.01] Fluorine [1, 2, 2006.01]
	+ HD [1, 2, 2006.01]	7/24	 Inter-halogen compounds [1, 2006.01]
5/00	Water [1, 2006.01]	7724	inter-natogen compounds [1, 2000.01]
5/02	 Heavy water; Preparation by chemical reaction of hydrogen isotopes or their compounds, e.g. 4ND₃+7O₂ → 4NO₂+6D₂O, 2D₂+O₂ → 2D₂O [1, 2006.01] 	9/00	General methods of preparing halides (particular individual halides, <u>see</u> the relevant groups in subclasses C01B-C01G according to the element combined with the halogen; electrolytic production of inorganic compounds C25B) [1, 2006.01]
6/00	Hydrides of metals; Monoborane or diborane;	9/02	• Chlorides [1, 2006.01]
	Addition complexes thereof [1, 2, 2006.01]	9/04	• Bromides [1, 2006.01]
6/02	Hydrides of transition elements; Addition complexes	9/06	• Iodides [1, 2006.01]
	thereof [1, 2006.01]	9/08	• Fluorides [1, 2006.01]
6/04	Hydrides of alkali metals, alkaline earth metals,		
	beryllium or magnesium; Addition complexes thereof [1, 2006.01]	11/00	Oxides or oxyacids of halogens; Salts thereof [1, 2006.01]
6/06	Hydrides of aluminium, gallium, indium, thallium,	11/02	 Oxides of chlorine [1, 2006.01]
	germanium, tin, lead, arsenic, antimony, bismuth or	11/04	 Hypochlorous acid [1, 2006.01]
	polonium; Monoborane; Diborane; Addition complexes thereof [1, 2006.01]	11/06	• • Hypochlorites, e.g. chlorinated lime [1, 2006.01]
6/10	Monoborane; Diborane; Addition complexes	11/08	• Chlorous acid [1, 2006.01]
07 10	thereof [1, 2, 2006.01]	11/10	• • Chlorites [1, 2006.01]
6/11	Preparation from boron or inorganic	11/12	• Chloric acid [1, 2006.01]
	compounds containing boron and	11/14	• • Chlorates [1, 2006.01]
	oxygen [2, 2006.01]	11/16	Perchloric acid [1, 2006.01]Perchlorates [1, 2006.01]
6/13	Addition complexes of monoborane or	11/18 11/20	 Oxygen compounds of bromine [1, 2006.01]
	diborane, e.g. with phosphine, arsine or hydrazine [2, 2006.01]	11/20	 Oxygen compounds of iodine [1, 2006.01] Oxygen compounds of iodine [1, 2006.01]
6/15	• • • Metal borohydrides; Addition complexes	11/24	 Oxygen compounds of fluorine [1, 2006.01] Oxygen compounds of fluorine [1, 2006.01]
	thereof [2, 2006.01]	11/24	Oxygen compounds of hubbane [1, 2000.01]
6/17	 Preparation from boron or inorganic compounds containing boron and oxygen [2, 2006.01] 		Oxides or hydroxides in general; Per-compounds
6/19	• • • • Preparation from other compounds of boron [2, 2006.01]	13/00	Oxygen; Ozone; Oxides or hydroxides in general [1, 2006.01]
6/21	• • • • • Preparation of borohydrides of alkali metals, alkaline earth metals,	13/02	 Preparation of oxygen (by liquefying F25J) [1, 2006.01]
	magnesium or beryllium; Addition complexes thereof, e.g. LiBH₄.2N₂H₄,	13/08	 from air with the aid of metal oxides, e.g. barium oxide, manganese oxide [1, 2006.01]
	NaB ₂ H ₇ [2, 2006.01]	13/10	 Preparation of ozone [1, 2006.01]
6/23	 • • • • Preparation of borohydrides of other 	13/11	 by electric discharge [2, 2006.01]
	metals, e.g. aluminium borohydride;	13/14	Methods for preparing oxides or hydroxides in
	Addition complexes thereof, e.g. Li		general (particular individual oxides or hydroxides,
6/24	[Al(BH ₄) ₃ H] [2, 2006.01] • Hydrides containing at least two metals, e.g.		see the relevant groups of subclasses C01B-C01G or C25B, according to the element combined with the
0/24	Li(AlH ₄); Addition complexes thereof (C01B 6/13-		oxygen or hydroxy group) [1, 2006.01]
	C01B 6/23 take precedence) [1, 2, 2006.01]	13/16	 Purification [3, 2006.01]
6/26	Preparation from the metal with the highest	13/18	 by thermal decomposition of compounds, e.g. of
	valency or from its oxides or salts of its		salts or hydroxides [3, 2006.01]
	oxyacids [1, 2006.01]	13/20	• • by oxidation of elements in the gaseous state; by
6/34	• Purification; Stabilisation [1, 2006.01]		oxidation or hydrolysis of compounds in the gaseous state [3, 2006.01]

13/22	• • • of halides or oxyhalides [3, 2006.01]	17/20	•	Methods for preparing sulfides or polysulfides, in
13/24	• • • in the presence of hot combustion			general (ammonium sulfides or polysulfides C01C;
107 = 1	gases [3, 2006.01]			sulfides or polysulfides of metals, other than alkali
12/26				metals, magnesium, calcium, strontium, and barium,
13/26	• • • in the presence of a fluidised			see the relevant groups of subclasses C01F or C01G,
45.450	bed [3, 2006.01]			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]
	discharge [3, 2006.01]			
13/30	 • • • Removal and cooling of the oxide containing 	17/24		• Preparation by reduction [1, 2006.01]
	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	•	 Preparation from sodium or potassium amalgam
13/34	 by oxidation or hydrolysis of sprayed or atomised 			with sulfur or sulfides [1, 2006.01]
	solutions [3, 2006.01]	17/32	•	 Hydrosulfides of sodium or
13/36	• • by precipitation reactions in solutions [3, 2006.01]			potassium [1, 2006.01]
15/50	by precipitation reactions in solutions [5, 2000.01]	17/34		• Polysulfides of sodium or potassium [1, 2006.01]
15/00	Peroxides; Peroxyhydrates; Peroxyacids or salts	17/36		• Purification [1, 2006.01]
	thereof; Superoxides; Ozonides [1, 2006.01]			
15/01	 Hydrogen peroxide [3, 2006.01] 	17/38		• Dehydration [1, 2006.01]
		17/40	•	 Making shaped products, e.g.
15/013	• • Separation; Purification;			granules [1, 2006.01]
15 /045	Concentration [3, 2006.01]	17/42	•	Sulfides or polysulfides of magnesium, calcium,
15/017	J J , J ,			strontium, or barium [1, 2006.01]
	solutions or gaseous mixtures containing	17/43	•	• from oxides or hydroxides with sulfur or hydrogen
	hydrogen peroxide [3, 2006.01]			sulfide [1, 2006.01]
	 Preparation from organic compounds [2, 2006.01] 	17/44	•	 by reduction of sulfates [1, 2006.01]
15/023	• • • by the alkyl-anthraquinone process [3, 2006.01]	17/45		Compounds containing sulfur and halogen, with or
15/024	• • • from hydrocarbons [3, 2006.01]	177.13		without oxygen [1, 2006.01]
	• • • from alcohols [3, 2006.01]	17/46		Compounds containing sulfur, halogen, hydrogen,
	• • Preparation from water [3, 2006.01]	17740		and oxygen [1, 2006.01]
15/029	Preparation from hydrogen and	17/40	_	
13/023	oxygen [3, 2006.01]	17/48		Sulfur dioxide; Sulfurous acid [1, 2006.01]
15/00		17/50		Preparation of sulfur dioxide [1, 2006.01]
15/03	Preparation from inorganic peroxy-compounds, from a reconstillator I2, 2006, 011.	17/52	•	 by roasting sulfides (preliminary treatment of
4 = 4000	e.g. from peroxysulfates [3, 2006.01]			ores or scrap C22B 1/00) [1, 2006.01]
	• • • from metal peroxides [3, 2006.01]	17/54	•	 by burning elemental sulfur [1, 2006.01]
15/037	 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]			like [1, 2006.01]
15/043	 of alkali metals, alkaline earth metals or of 	17/60		Isolation of sulfur dioxide from
	magnesium [2, 3, 2006.01]	17700		gases [1, 2006.01]
15/047	 of heavy metals [2, 3, 2006.01] 	17/62		Methods of preparing sulfites in general (particular
	 Peroxyhydrates (C01B 15/04 takes precedence); 	17702		individual sulfites, <u>see</u> the relevant groups of
10,000	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]
		17/64		Thiosulfates; Dithionites; Polythionates [1, 2006.01]
15/08	• • • Peroxysulfates [1, 3, 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	•	 Stabilisation of gamma-form sulfur
15/16	 containing phosphorus [1, 3, 2006.01] 			trioxide [1, 2006.01]
		17/74	•	• Preparation [1, 3, 2006.01]
		17/76		• • by contact processes [1, 2006.01]
		17/765		• • • Multi-stage SO ₃ -conversion [3, 2006.01]
17/00	Sulfur; Compounds thereof [1, 2006.01]	17/77		• • Fluidised-bed processes [3, 2006.01]
17/02	Preparation of sulfur; Purification [1, 2006.01]	17/775		
17/027	Recovery of sulfur from material containing	1///5	•	• • Liquid phase contacting processes or wet
177027	elemental sulfur, e.g. luxmasses;	. = . = 0		catalysis processes [3, 2006.01]
	Purification [3, 2006.01]	17/78	•	• • characterised by the catalyst
17/033				used [1, 2006.01]
	• • • using a liquid extractant [3, 2006.01]	17/79	•	• • • containing vanadium [3, 2006.01]
17/04	• • from gaseous sulfur compounds including gaseous	17/80	•	• • • Apparatus [1, 2006.01]
	sulfides [1, 2006.01]	17/82	•	 of sulfuric acid using a nitrogen oxide
17/05	• • • by wet processes [3, 2006.01]			process [1, 2006.01]
17/06	 from non-gaseous sulfides or materials containing 	17/84	•	• • • Chamber process [1, 2006.01]
	such sulfides, e.g. ores [1, 2006.01]	17/86		• • • Tower process [1, 2006.01]
17/10	 Finely-divided sulfur, e.g. sublimed sulfur, flowers 	17/88		• Concentration of sulfuric acid [1, 2006.01]
	of sulfur [1, 2006.01]			
17/12	 Insoluble sulfur (mu-sulfur) [1, 2006.01] 	17/90		• Separation; Purification [1, 2006.01]
17/16	 Hydrogen sulfides [1, 2006.01] 	17/92		• • Recovery from acid tar or the like [1, 2006.01]
17/18	Hydrogen polysulfides [1, 2006.01]	17/94	•	• • Recovery from nitration acids [1, 2006.01]

17/96	 Methods for the preparation of sulfates in general (particular individual sulfates, see the relevant groups 	21/40	 Preparation by absorption of oxides of nitrogen [1, 2006.01]
	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 Containing sulfur and oxygen	21/46	• • • Purification; Separation [1, 2006.01]
	(persulfuric acids C01B 15/06; persulfates C01B 15/08) [1, 2006.01]	21/48	• • Methods for the preparation of nitrates in general
	COLD 13/00) [1, 2000.01]		(particular individual nitrates, <u>see</u> the relevant
19/00	Selenium; Tellurium; Compounds		groups of subclasses C01B-C01G, according to the cation) [1, 2006.01]
	thereof [1, 2006.01]	21/50	 Nitrous acid; Salts thereof [1, 2006.01]
19/02	• Elemental selenium or tellurium [3, 2006.01]	21/50	rvidous deld, Suits diereor [1, 2000.01]
19/04	• Binary compounds [3, 2006.01]	23/00	Noble gases; Compounds thereof (liquefying
21/00	Nitrogen; Compounds thereof [1, 2006.01]		F25J) [1, 2006.01]
21/02	Preparation of nitrogen (by decomposition of	25/00	Phosphorus; Compounds thereof (C01B 21/00,
	ammonia C01B 3/04) [1, 2006.01]	_5,00	C01B 23/00 take precedence; perphosphates
21/04	 Purification or separation of nitrogen (by liquefying 		C01B 15/16) [1, 3, 2006.01]
	F25J) [1, 2006.01]	25/01	 Treating phosphate ores or other raw phosphate
21/06	• Binary compounds of nitrogen with metals, with		materials to obtain phosphorus or phosphorus
21/064	silicon, or with boron [1, 2006.01]	25 (02	compounds [2, 2006.01]
21/064	• • with boron [3, 2006.01]	25/02	• Preparation of phosphorus [1, 2006.01]
21/068 21/072	with silicon [3, 2006.01]with aluminium [3, 2006.01]	25/023 25/027	• of red phosphorus [2, 2006.01]• of yellow phosphorus [2, 2006.01]
21/0/2	• with titanium or zirconium [3, 2006.01]	25/02/	Purification of phosphorus [1, 2006.01]
21/0/0	 Hydrazoic acid; Azides; Halogen azides [1, 2006.01] 	25/043	 of red phosphorus [2, 2006.01]
21/082	Compounds containing nitrogen and non-metals	25/047	 of yellow phosphorus [2, 2006.01]
217 002	(C01B 21/06, C01B 21/08 take	25/06	 Hydrogen phosphides [1, 2006.01]
	precedence) [3, 2006.01]	25/08	 Other phosphides [1, 2006.01]
21/083	 containing one or more halogen 	25/10	Halides or oxyhalides of phosphorus [1, 2, 2006.01]
	atoms [3, 2006.01]	25/12	• Oxides of phosphorus [1, 2006.01]
21/084	• • containing also one or more oxygen atoms, e.g.	25/14	Sulfur, selenium, or tellurium compounds of
21/006	nitrosyl halides [3, 2006.01]		phosphorus [1, 2006.01]
21/086 21/087	containing one or more sulfur atoms [3, 2006.01]containing one or more hydrogen	25/16	Oxyacids of phosphorus; Salts thereof (peroxyacids)
21/00/	atoms [3, 2006.01]	DE /4.6D	or salts thereof C01B 15/00) [1, 2006.01]
21/088	containing also one or more halogen	25/163	• • Phosphorous acid; Salts thereof [2, 2006.01]
	atoms [3, 2006.01]	25/165	• • Hypophosphorous acid; Salts thereof [2, 2006.01]
21/09	• • • • Halogeno-amines, e.g.	25/168 25/18	• Pyrophosphorous acid; Salts thereof [2, 2006.01]• Phosphoric acid [1, 2006.01]
	chloramine [3, 2006.01]	25/10	Preparation from elemental phosphorus or
21/092	• • • containing also one or more metal	25/20	phosphoric anhydride [1, 2006.01]
21/002	atoms [3, 2006.01]	25/22	Preparation by reacting phosphate containing
21/093	 containing also one or more sulfur atoms [3, 2006.01] 		material with an acid, e.g. wet
21/094	• • • Nitrosyl containing acids [3, 2006.01]		process [1, 2006.01]
21/096	• • • Amidosulfonic acid; Salts	25/222	• • • with sulfuric acid, a mixture of acids mainly
	thereof [3, 2006.01]		consisting of sulfuric acid or a mixture of compounds forming it in situ, e.g. a mixture
21/097	• • containing phosphorus atoms [3, 2006.01]		of sulfur dioxide, water and
21/098	• • Phosphonitrilic dihalides; Polymers		oxygen [3, 2006.01]
	thereof [3, 2006.01]	25/223	• • • • only one form of calcium sulfate being
21/12	• Carbamic acid; Salts thereof [1, 2006.01]		formed [3, 2006.01]
21/14	• • Hydroxylamine; Salts thereof [1, 2006.01]	25/225	• • • • • Dihydrate process [3, 2006.01]
21/16	• Hydrazine; Salts thereof [1, 2006.01]	25/226	• • • • • Hemihydrate process [3, 2006.01]
21/20	• Nitrogen oxides; Oxyacids of nitrogen; Salts	25/228	• • • • one form of calcium sulfate being formed
21/22	thereof [1, 2006.01] • Nitrous oxide (N ₂ O) [1, 2006.01]		and then converted to another form [3, 2006.01]
21/24	• Nitric oxide (NO) [1, 2006.01]	25/229	• • • • • Hemihydrate-dihydrate
21/24	Preparation by catalytic oxidation of	231223	process [3, 2006.01]
_1, _0	ammonia [1, 2006.01]	25/231	• • • • • Dihydrate-hemihydrate
21/28	• • • • Apparatus [1, 2006.01]		process [3, 2006.01]
21/30	• • • Preparation by oxidation of	25/232	• • • • Preparation by reacting phosphate
	nitrogen [1, 2006.01]		containing material with concentrated
21/32	• • • Apparatus [1, 2006.01]		sulfuric acid and subsequently lixiviating
21/34	• • Nitrogen trioxide (N ₂ O ₃) [1, 2006.01]		the obtained mass, e.g. clincker process [3, 2006.01]
21/36	• Nitrogen dioxide (NO ₂ , N ₂ O ₄) (C01B 21/26,		F (a) =2001021
21/38	C01B 21/30 take precedence) [1, 2006.01] • Nitric acid [1, 2006.01]		

21/38 • • Nitric acid [1, 2006.01]

25/234			
	 • Purification; Stabilisation; Concentration 	32/19 • • • by exfolia	tion [2017.01]
	(purification concomitant with preparation	-	g from graphitic oxides [2017.01]
	C01B 25/22; preparation involving solvent-	32/194 • • • After-treatm	
	solvent extraction C01B 25/46) [3, 2006.01]	32/196 • • • Purification	
25/235	Clarification; Stabilisation to prevent post-		
	precipitation of dissolved	- · · · ·	
	impurities [3, 2006.01]	32/20 • Graphite [2017.01	
25/237	• • • Selective elimination of	32/205 • • Preparation [20	
20,20,	impurities [3, 2006.01]	32/21 • • After-treatment	[2017.01]
25/238	• • • • Cationic impurities [3, 2006.01]	32/215 • • • Purification;	Recovery or purification of
		graphite for	ned in iron making, e.g. kish
25/24	• • Condensed phosphoric acids [1, 2006.01]	graphite [20	17.01]
25/26	Phosphates (perphosphates A 2000 041	32/22 • • • Intercalation	
	C01B 15/16) [1, 2006.01]		n; Exfoliation [2017.01]
25/28	• • • Ammonium phosphates [1, 2006.01]	32/23 • • • Oxidation [2	
25/30	• • • Alkali metal phosphates [1, 2006.01]	32/25 • Diamond [2017.01	_
25/32	 Phosphates of magnesium, calcium, strontium, 	_	_
	or barium [1, 2006.01]		using ultra-high pressure
25/34	• • • • Magnesium phosphates [1, 2006.01]	B01J 3/06; by 6	
25/36	• • • Aluminium phosphates [1, 2006.01]	C30B 29/04) [2	
25/37	• • • Phosphates of heavy metals [2, 2006.01]		, e.g. purification, irradiation,
25/38	• • • Condensed phosphates [1, 2006.01]	-	covery [2017.01]
25/39	• • • • of alkali metals [3, 2006.01]	32/30 • Active carbon [20	
		32/306 • • with molecular	sieve properties [2017.01]
25/40	• • • Polyphosphates [2, 2006.01]	32/312 • • Preparation [20	17.01]
25/41	• • • • of alkali metals [3, 2006.01]	32/318 • • • characterised	l by the starting
25/42	• • • Pyrophosphates [2, 2006.01]	materials [20	
25/44	• • • • Metaphosphates [2, 2006.01]	32/324 • • • from was	e materials, e.g. tyres or spent
25/445	• • • • of alkali metals [3, 2006.01]		p liquor [2017.01]
25/45	containing plural metal, or metal and		llation residues of coal or
	ammonium [3, 2006.01]		; from petroleum acid
25/455	• • • containing halogen [3, 2006.01]	sludge [2	
25/46	Preparation involving solvent-solvent		l by gaseous activating
257 40	extraction [2, 2006.01]		
		agents IZULA	
	c	agents [2017	
32/00		32/342 • • • characterised	l by non-gaseous activating
32/00	Carbon; Compounds thereof (C01B 21/00,	32/342 • • • characterised agents [2017	l by non-gaseous activating [.01]
32/00	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of	l by non-gaseous activating .01] compounds [2017.01]
32/00 32/05	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment	l by non-gaseous activating .01] compounds [2017.01] [2017.01]
	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] • Preparation or purification of carbon not covered by	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation	l by non-gaseous activating [.01] compounds [2017.01] [2017.01] or regeneration [2017.01]
	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physical states agents [2017]	by non-gaseous activating [.01] compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by
32/05	 Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] 	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physical using electrons.	by non-gaseous activating [.01] compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through
	 Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF]_n or [C₂F]_n (graphite 	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physical using electromagnets.	by non-gaseous activating [.01] compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by the current passing through the cous feedstock or by using
32/05 32/10	 Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF]_n or [C₂F]_n (graphite intercalation thereof C01B 32/22) [2017.01] 	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of Salary	by non-gaseous activating [.01] [.01] [.01] [.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01]
32/05 32/10 32/15	 Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF]_n or [C₂F]_n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] 	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physical using electrocarbonacterises agents [2017] 32/372 • • • Coating; Graft Gr	by non-gaseous activating [.01] [.01] [.01] [.01] [.01] [.01] [.017.01] [.01]
32/05 32/10 32/15 32/152	 Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF]_n or [C₂F]_n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] 	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • by physical using electrocarbonace recyclable 32/372 • • Coating; Gramicroencaps	by non-gaseous activating [.01] [.01] [.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01]
32/05 32/10 32/15 32/152 32/154	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physical using electrocarbonacterises agents [2017] 32/372 • • • Coating; Gravitation Gr	by non-gaseous activating [.01] [.01] [.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01]
32/05 32/10 32/15 32/152 32/154 32/156	 Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF]_n or [C₂F]_n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] 	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • by physical using electrocarbonace recyclable 32/372 • • Coating; Gramicroencaps	by non-gaseous activating [.01]
32/05 32/10 32/15 32/152 32/154 32/156 32/158	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • by physical using electric carbonacterise recyclable 32/372 • • Coating; Gramicroencaps 32/378 • • Purification 32/384 • • • Granulation	by non-gaseous activating [.01]
32/10 32/15 32/15 32/152 32/154 32/156 32/158 32/159	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] • Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] • Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] • Nanosized carbon materials [2017.01] • Fullerenes [2017.01] • • Preparation [2017.01] • • After-treatment [2017.01] • • Carbon nanotubes [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physic using electrocarbonacce recyclable 32/372 • • • Coating; Gramicroencaps 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01]	by non-gaseous activating [.01] [compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by stric current passing through cous feedstock or by using a inert heating bodies [2017.01] [confing; [confine] [confine] [confine] [confine]
32/05 32/10 32/15 32/152 32/154 32/156 32/158	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physic using electrocarbonacce recyclable 32/372 • • • Coating; Gramicroencaps 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01]	by non-gaseous activating [.01]
32/10 32/15 32/15 32/152 32/154 32/156 32/158 32/159	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] • Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] • Carbon fluorides, e.g. [CF] _n or [C₂F] _n (graphite intercalation thereof C01B 32/22) [2017.01] • Nanosized carbon materials [2017.01] • Fullerenes [2017.01] • • Preparation [2017.01] • • Carbon nanotubes [2017.01] • • single-walled [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • • by physic using electrocarbonacce recyclable 32/372 • • • Coating; Gramicroencaps 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term	by non-gaseous activating [.01] [compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by stric current passing through cous feedstock or by using a inert heating bodies [2017.01] [confing; [confine] [confine] [confine] [confine]
32/05 32/10 32/15 32/152 32/154 32/158 32/158 32/159 32/16	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] • Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] • Carbon fluorides, e.g. [CF] _n or [C₂F] _n (graphite intercalation thereof C01B 32/22) [2017.01] • Nanosized carbon materials [2017.01] • Fullerenes [2017.01] • • Preparation [2017.01] • • Carbon nanotubes [2017.01] • • carbon nanotubes [2017.01] • • reparation [2017.01] • • carbon nanotubes [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physic using electrocarbonace recyclable 32/372 • • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparation 12/374 has a second agents [2017.01].	by non-gaseous activating [.01] [compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by stric current passing through cous feedstock or by using a inert heating bodies [2017.01] [confing; [color.01] [color.01] [color.01] [color.01] [color.01]
32/10 32/15 32/152 32/154 32/156 32/158 32/159 32/16 32/162 32/164	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] Carbon nanotubes [2017.01] carbon nanotubes [2017.01] Preparation [2017.01] carbon carbon [2017.01] carbon carbon sanctubes [2017.01] carbon carbon sanctubes [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physic using electrocarbonace recyclable 32/372 • • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs	I by non-gaseous activating [.01] [.01] [.01] [.01] [.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01] [.017.01]
32/10 32/15 32/152 32/154 32/156 32/158 32/16 32/162 32/164 32/164	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] Carbon nanotubes [2017.01] carbon nanotubes [2017.01] Preparation [2017.01] carbon carbon [2017.01] in iniquid phase [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • by physical using electron carbonacce recyclable 32/372 • • • Coating; Gramicroencaps 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparaticarbonaceous precurs 32/39 • • Apparatus for the support of the s	by non-gaseous activating [.01] [.01] [.01] [.01] [.01] [.01] [.017.01] [.017.01] [.017.01] [.01
32/10 32/15 32/152 32/154 32/156 32/158 32/163 32/162 32/164 32/166 32/168	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] Carbon nanotubes [2017.01] carbon nanotubes [2017.01] carbon carbon [2017.01] carbon carbon processes [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01]	32/342 • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • After-treatment 32/36 • • Reactivation 32/366 • • • by physical using electron carbonacce recyclable 32/372 • • Coating; Gramicroencaps 32/378 • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for the 32/40 • Carbon monoxide	I by non-gaseous activating [.01] [.01] [.01] [.01] [.01] [.017.01] [.017.01] [.017.01] [.01]
32/15 32/15 32/152 32/154 32/156 32/158 32/16 32/162 32/164 32/166 32/168 32/17	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] Single-walled [2017.01] Preparation [2017.01] Preparation [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • • by physical using electric carbonace recyclable 32/372 • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for the 32/40 • Carbon monoxide 32/50 • Carbon dioxide [2017.01]	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through cous feedstock or by using e inert heating bodies [2017.01] [fting; allation [2017.01] [2017.01] [2017.01] [2017.01] [2017.01] [2017.01] [2017.01] [2017.01] [2017.01]
32/15 32/15 32/152 32/154 32/156 32/158 32/16 32/164 32/164 32/166 32/168 32/17	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] Preparation [2017.01] cincle carbon continuous processes [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • • by physical using electric carbonace recyclable 32/372 • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for to 32/40 • Carbon monoxide 32/50 • Carbon dioxide [2017.01] [2017.01]	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through tous feedstock or by using entert heating bodies [2017.01] [cont.on]
32/15 32/15 32/152 32/154 32/156 32/158 32/16 32/164 32/164 32/166 32/168 32/17	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] cincle carbon [2017.01] After-treatment [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • • by physic using electric carbonace recyclable 32/372 • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for to 32/40 • Carbon monoxide 32/50 • Carbon dioxide [2032/55] • • Solidifying [2032/60] • Preparation of carbonaceous of carbonaceous [2032/60] • Preparation of carbonaceous of carbonaceous [2032/50] • Preparation of carbonaceous of carbonaceous [2032/50] • Preparation of carbonaceous of carbonaceous [2032/50] • Preparation of carbonaceous precurs [2032/50] • Preparation of carbonaceous	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through tous feedstock or by using entert heating bodies [2017.01] [cont.on.] [cont
32/10 32/15 32/152 32/154 32/156 32/158 32/159 32/16 32/162 32/164 32/164 32/168 32/17 32/172 32/174	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Preparation [2017.01] Preparation [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] Preparation [2017.01] cincle preparation [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Sorting [2017.01] Derivatisation; Solubilisation; Dispersion in solvents [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • • by physic using electric carbonace recyclable 32/372 • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for to 32/40 • Carbon monoxide 32/50 • Carbon dioxide [2 32/55 • • Solidifying [20 32/60 • Preparation of card (of percarbonates)	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through tous feedstock or by using entert heating bodies [2017.01] [cont.on.] [cont
32/10 32/15 32/152 32/154 32/156 32/159 32/16 32/163 32/164 32/166 32/174 32/172 32/174	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] carbon nanotubes [2017.01] carbon carbon [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Carbon continuous processes [2017.01] Carbon continuous processes [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • • by physic using electric carbonace recyclable 32/372 • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 22/39 • • Apparatus for to 32/40 • Carbon monoxide 32/50 • Carbon dioxide [2 32/55 • • Solidifying [20 32/60 • Preparation of card (of percarbonates acordinates acordina	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through tous feedstock or by using entert heating bodies [2017.01] [cont.on.] [cont
32/15 32/15 32/152 32/154 32/156 32/159 32/16 32/162 32/164 32/168 32/17 32/172 32/174	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Preparation [2017.01] Preparation [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] Preparation [2017.01] cincle preparation [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Sorting [2017.01] Derivatisation; Solubilisation; Dispersion in solvents [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • by physic using electric carbonace recyclable 32/372 • • Coating; Gramicroencape 32/378 • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 22/39 • • Apparatus for to 32/50 • Carbon monoxide 32/50 • Carbon dioxide [2 32/55 • • Solidifying [20 32/60 • Preparation of card (of percarbonates accord colors) [2017.01]	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through tous feedstock or by using entert heating bodies [2017.01] [cont.on.] [cont
32/10 32/15 32/152 32/154 32/156 32/159 32/16 32/163 32/164 32/166 32/174 32/172 32/174	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] carbon nanotubes [2017.01] carbon carbon [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Carbon continuous processes [2017.01] Carbon continuous processes [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • by physic using electric carbonace recyclable 32/372 • • Coating; Gramicroencape 32/378 • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 22/39 • • Apparatus for to 32/40 • Carbon monoxide 32/50 • Carbon dioxide [2 32/55 • • Solidifying [20 32/60 • Preparation of card (of percarbonates ac C01G) [2017.01] 32/70 • Compounds contains 22/50 • Compounds 22/50 • Com	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through tous feedstock or by using entert heating bodies [2017.01] [cont.on.] [cont
32/10 32/15 32/152 32/154 32/156 32/158 32/159 32/16 32/162 32/164 32/166 32/173 32/172 32/174 32/176 32/178	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] carbon nanotubes [2017.01] preparation [2017.01] characterised by catalysts [2017.01] in inliquid phase [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Characterised by Collipsian (Collipsian) Cutting [2017.01] Cutting [2017.01] Cutting [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • by physic using electric carbonacce recyclable 32/372 • • Coating; Gramicroencape 32/378 • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 22/39 • • Apparatus for to 32/40 • Carbon monoxide 32/50 • Carbon dioxide [2 32/55 • • Solidifying [20 32/56 • Preparation of card (of percarbonates acord color) [2017.01] 32/70 • Compounds contathiophosgene [201	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through tous feedstock or by using entert heating bodies [2017.01] [conting; toulation [2017.01] [conting] [c
32/10 32/15 32/152 32/154 32/156 32/158 32/159 32/16 32/162 32/164 32/166 32/173 32/172 32/174 32/176 32/178	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] Preparation [2017.01] carbon nanotubes [2017.01] After-treatment [2017.01] characterised by catalysts [2017.01] iniquid phase [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Carbon nanotubes [2017.01] Characterised by catalysts [2017.01] After-treatment [2017.01] Carbon nanotubes [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • • by physic using electorary carbonacce recyclable 32/372 • • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for transported as 2/50 • Carbon dioxide [2 32/55 • • Solidifying [20 32/55 • • Solidifying [20 32/60 • Preparation of card (of percarbonates ac C01G) [2017.01] 32/70 • Compounds contathiophosgene [20132/72 • • Carbon disulficed agents are considered as 2/72 • • Carbon disulficed as 2/72 • • Carbon disulficed as 2/72	by non-gaseous activating [.01] compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by stric current passing through cous feedstock or by using enert heating bodies [2017.01] offing; culation [2017.01] [2017.01] [2017.01] in "granulation" also covers on of active carbon using sors per se and binders, e.g. pitch. he preparation thereof [2017.01]
32/15 32/15 32/152 32/154 32/156 32/158 32/16 32/162 32/164 32/166 32/17 32/174 32/174 32/174 32/178 32/178 32/18	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF]n or [C₂F]n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] carbon nanotubes [2017.01] Preparation [2017.01] characterised by catalysts [2017.01] high in liquid phase [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Characterised by Catalysts [2017.01] Characterised by Catalysts [2017.01] After-treatment [2017.01] Characterised [2017.01] After-treatment [2017.01] After-treatment [2017.01] Nanoonions; Nanoscrolls; Nanohorns; Nanocones; Nanowalls [2017.01] Nanoonions; Nanoscrolls; Nanohorns; Nanocones; Nanowalls [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • • by physic using electorary carbonacce recyclable 32/372 • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for transformatic action accous precurs 32/40 • Carbon dioxide [2 32/55 • • Solidifying [20 32/55 • • Solidifying [20 32/60 • Preparation of card (of percarbonates action accous action accous action account thiophosgene [201 32/72 • • Carbon disulfice 32/75 • • • Preparation of action account action account action account action account action account action account	by non-gaseous activating [3.01] compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through cous feedstock or by using enert heating bodies [2017.01] [atting; allation [2017.01]
32/15 32/15 32/152 32/154 32/156 32/158 32/16 32/162 32/164 32/166 32/17 32/174 32/174 32/174 32/178 32/18 32/182 32/184	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] carbon nanotubes [2017.01] carbon nanotubes [2017.01] carbon nanotubes [2017.01] carbon nanotubes [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Carbon in iquid phase [2017.01] After-treatment [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • • by physic using electric carbonace recyclable 32/372 • • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for transportation 32/40 • Carbon monoxide 32/50 • Carbon dioxide [232/55 • • Solidifying [2032/55 • • Solidifying [2032/60 • Preparation of card (of percarbonates ac C01G) [2017.01] 32/70 • Compounds contathiophosgene [20132/75 • • Carbon disulfice 32/75 • • Preparation of compounds of the compound of the compounds of the compounds of the compounds of the compo	by non-gaseous activating [3.01] compounds [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by tric current passing through cous feedstock or by using enert heating bodies [2017.01] [atting; allation [2017.01]
32/15 32/15 32/152 32/154 32/156 32/158 32/16 32/162 32/164 32/166 32/17 32/174 32/174 32/174 32/178 32/178 32/18	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Preparation [2017.01] After-treatment [2017.01] Carbon nanotubes [2017.01] Preparation [2017.01] Carbon nanotubes [2017.01] Carbon nanotubes [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Preparation [2017.01] After-treatment [2017.01] Carbon iliquid phase [2017.01] After-treatment [2017.01] Preparation [2017.01] Preparation [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • • Reactivation 32/366 • • • • by physic using electrope carbonace recyclable 32/372 • • Coating; Gramicroencaps 32/378 • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for the methods of preparatic carbonaceous precurs 32/40 • Carbon monoxide 32/50 • Carbon dioxide [232/55 • • Solidifying [2032/55 • • Solidifying [2032/56 • Preparation of carbonates act C01G) [2017.01] 32/70 • Compounds contathiophosgene [20132/72 • Carbon disulfied 32/75 • • Preparation of compounds 32/77 • • Carbon oxysulfied 32/77 • • • Carbon	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by the current passing through cous feedstock or by using entert heating bodies [2017.01] [cont.on.] [cont.
32/15 32/15 32/152 32/154 32/156 32/158 32/16 32/162 32/164 32/168 32/17 32/174 32/174 32/174 32/178 32/186 32/188	Carbon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; percarbonates C01B 15/10; carbon black C09C 1/48) [2017.01] Preparation or purification of carbon not covered by groups C01B 32/15, C01B 32/20, C01B 32/25, C01B 32/30 [2017.01] Carbon fluorides, e.g. [CF] _n or [C ₂ F] _n (graphite intercalation thereof C01B 32/22) [2017.01] Nanosized carbon materials [2017.01] Fullerenes [2017.01] Preparation [2017.01] After-treatment [2017.01] carbon nanotubes [2017.01] carbon nanotubes [2017.01] carbon nanotubes [2017.01] carbon nanotubes [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] After-treatment [2017.01] Carbon in iquid phase [2017.01] After-treatment [2017.01]	32/342 • • • • characterised agents [2017] 32/348 • • • Metallic of 32/354 • • After-treatment 32/36 • • Reactivation 32/366 • • • • by physic using electric carbonace recyclable 32/372 • • • Coating; Gramicroencape 32/378 • • • Purification 32/384 • • Granulation Note(s) [2017.01] In this group, the term methods of preparatic carbonaceous precurs 32/39 • • Apparatus for transportation 32/40 • Carbon monoxide 32/50 • Carbon dioxide [232/55 • • Solidifying [2032/55 • • Solidifying [2032/60 • Preparation of card (of percarbonates ac C01G) [2017.01] 32/70 • Compounds contathiophosgene [20132/75 • • Carbon disulfice 32/75 • • Preparation of compounds of the compound of the compounds of the compounds of the compounds of the compo	by non-gaseous activating [.01] [2017.01] [2017.01] or regeneration [2017.01] al processes, e.g. by irradiation, by the current passing through cous feedstock or by using entert heating bodies [2017.01] [cont.on.] [cont.

32/90 • Carbides [2017.01]	33/12 • • Silica; Hydrates thereof, e.g. lepidoic silicic
32/907 • Oxycarbides; Sulfocarbides; Mixture of	acid [1, 3, 2006.01]
carbides [2017.01]	33/14 • • Colloidal silica, e.g. dispersions, gels,
32/914 • • Carbides of single elements [2017.01]	sols [1, 3, 2006.01]
32/921 • • • Titanium carbide [2017.01]	33/141 • • • Preparation of hydrosols or aqueous dispersions [3, 2006.01]
32/928 • • • Carbides of actinides [2017.01]	33/142 • • • • by acidic treatment of
32/935 • • • Carbides of alkali metals, strontium, barium or magnesium [2017.01]	silicates [3, 2006.01]
32/942 • • • Calcium carbide [2017.01]	33/143 • • • • • of aqueous solutions of
32/949 • • • Tungsten or molybdenum carbides [2017.01]	silicates [3, 2006.01]
32/956 • • • Silicon carbide [2017.01]	33/145 • • • Preparation of hydroorganosols, organosols
32/963 • • • Preparation from compounds containing	or dispersions in an organic medium [3, 2006.01]
silicon [2017.01]	33/146 • • • • After-treatment of sols (preparation of
32/97 • • • • Preparation from SiO or SiO ₂ [2017.01] 32/977 • • • • Preparation from organic compounds	hydroorganosols, organosols or dispersions
containing silicon [2017.01]	in an organic medium from hydrosols C01B 33/145) [3, 2006.01]
32/984 • • • • • Preparation from elemental	33/148 • • • • Concentration; Drying; Dehydration;
silicon [2017.01] 32/991 • • • Boron carbide [2017.01]	Stabilisation; Purification [3, 2006.01]
32/991	33/149 • • • • Coating [3, 2006.01]
33/00 Silicon; Compounds thereof (C01B 21/00, C01B 23/00 take precedence; persilicates C01B 15/14; carbides	33/151 • • • • by progressively adding a sol to a different sol, i.e. "build up" of particles
C01B 32/956) [1, 3, 2006.01]	using a "heel" [3, 2006.01]
33/02 • Silicon (forming single crystals or homogeneous	33/152 • • • • Preparation of hydrogels [3, 2006.01]
polycrystalline material with defined structure	33/154 • • • • by acidic treatment of aqueous silicate solutions [3, 2006.01]
C30B) [1, 5, 2006.01]	33/155 • • • Preparation of hydroorganogels or
33/021 • Preparation (chemical coating from the vapour phase C23C 16/00) [5, 2006.01]	organogels [3, 2006.01]
33/023 • • by reduction of silica or silica-containing	33/157 • • • • After-treatment of gels [3, 2006.01]
material [5, 2006.01]	33/158 • • • • Purification; Drying; Dehydrating [3, 2006.01]
33/025 • • • with carbon or a solid carbonaceous material, i.e. carbo-thermal	33/159 • • • • Coating or hydrophobisation [3, 2006.01]
process [5, 2006.01]	33/16 • • • Preparation of silica xerogels [1, 3, 2006.01]
33/027 • • • by decomposition or reduction of gaseous or	33/18 • • • Preparation of finely divided silica neither in
vaporised silicon compounds other than silica	sol nor in gel form; After-treatment thereof
or silica-containing material [5, 2006.01]	(treatment to enhance the pigmenting or filling
33/029 • • • • by decomposition of	properties C09C) [1, 3, 2006.01] 33/187 • • • by acidic treatment of silicates [3, 2006.01]
monosilane [5, 2006.01] 33/03 • • • by decomposition of silicon halides or	33/193 • • • • of aqueous solutions of
halosilanes or reduction thereof with	silicates [3, 2006.01]
hydrogen as the only reducing	33/20 • Silicates (persilicates C01B 15/14) [1, 2006.01]
agent [5, 2006.01]	33/22 • • Magnesium silicates [1, 2006.01]
33/031 • • • • by decomposition of silicon	33/24 • • Alkaline earth metal silicates [1, 2006.01]
tetraiodide [5, 2006.01]	33/26 • • Aluminium-containing silicates [1, 5, 2006.01]
33/033 • • • by reduction of silicon halides or halosilanes with a metal or a metallic alloy as the only	33/32 • • Alkali metal silicates (C01B 33/26 takes
reducing agents [5, 2006.01]	precedence) [1, 3, 2006.01]
33/035 • • • by decomposition or reduction of gaseous or	 • having base-exchange properties but not having molecular sieve properties [6, 2006.01]
vaporised silicon compounds in the presence	33/38 • • Layered base-exchange silicates, e.g. clays,
of heated filaments of silicon, carbon or a	micas or alkali metal silicates of kenyaite or
refractory metal, e.g. tantalum or tungsten, or in the presence of heated silicon rods on	magadiite type [6, 2006.01]
which the formed silicon is deposited, a	33/40 • • • Clays [6, 2006.01]
silicon rod being obtained, e.g. Siemens	33/42 • • • • Micas [6, 2006.01]
process [5, 2006.01]	33/44 • • • Products obtained from layered base- exchange silicates by ion-exchange with
33/037 • Purification (by zone-melting C30B 13/00) [5, 2006.01]	organic compounds such as ammonium,
33/039 • • • by conversion of the silicon into a compound,	phosphonium or sulfonium compounds or by
optional purification of the compound, and	intercalation of organic compounds, e.g. organoclay material [6, 2006.01]
reconversion into silicon [5, 2006.01] 33/04 • Hydrides of silicon [1, 2006.01]	33/46 • • • Amorphous silicates, e.g. so-called "amorphous
33/06 • Metal silicides [1, 2006.01]	zeolites" [6, 2006.01]
33/08 • Compounds containing halogen [1, 2006.01]	35/00 Boron; Compounds thereof (monoborane, diborane,
33/10 • Compounds containing silicon, fluorine, and other	35/00 Boron; Compounds thereof (monoborane, diborane, metal borohydrides or addition complexes thereof
elements [1, 2006.01]	C01B 6/00; perborates C01B 15/12; binary compounds
33/107 • • Halogenated silanes [3, 2006.01]	with nitrogen C01B 21/06; phosphides C01B 25/08;
33/113 • Silicon oxides; Hydrates thereof [3, 2006.01]	carbides C01B 32/991) [1, 2, 2006.01]

35/02	 Boron; Borides [2, 2006.01]
35/04	 Metal borides [2, 2006.01]
35/06	 Boron halogen compounds [2, 2006.01]
35/08	 Compounds containing boron and nitrogen, phosphorus, oxygen, sulfur, selenium or tellurium [2, 2006.01]
35/10	• • Compounds containing boron and oxygen (C01B 35/06 takes precedence) [2, 2006.01]
35/12	• • • Borates [2, 2006.01]
35/14	 Compounds containing boron and nitrogen, phosphorus, sulfur, selenium or tellurium [2, 2006.01]
35/16	• Compounds containing direct bonding between two boron atoms, e.g. Cl ₂ B—BCl ₂ [2, 2006.01]
35/18	 Compounds containing three or more boron atoms, e.g. NaB₃H₈, MgB₁₀Br₁₀ (borazoles C01B 35/14) [2, 2006.01]

Compounds characterised primarily by their physical or chemical properties, rather than by their chemical constitution [6]

37/00 Compounds having molecular sieve properties but not having base-exchange properties [6, 2006.01]

- 37/02 Crystalline silica-polymorphs, e.g. silicalites [6, 2006.01]
- 37/04 Aluminophosphates [APO compounds] [6, 2006.01]
- 37/06 Aluminophosphates containing other elements, e.g. metals, boron [6, 2006.01]
- 37/08 • Silicoaluminophosphates [SAPO compounds] [6, 2006.01]

39/00 Compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites; Their preparation; After-treatment, e.g. ion-exchange or dealumination (treatment to modify the sorption properties, e.g. shaping using a binder, B01J 20/10; treatment to modify the catalytic properties, e.g. combination of treatments to make the zeolites appropriate to their use as a catalyst, B01J 29/04; treatment to improve the ion-exchange properties B01J 39/14) [6, 2006.01]

Note(s) [6]

In this group, the following term is used with the meaning indicated:

- "zeolites" means:
 - crystalline aluminosilicates with baseexchange and molecular sieve properties, having three dimensional, microporous lattice framework structure of tetrahedral oxide units;
 - ii. compounds isomorphous to those of the former category, wherein the 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.

- Crystalline aluminosilicate zeolites; Isomorphous compounds thereof; Direct preparation thereof; Preparation thereof starting from a reaction mixture containing a crystalline zeolite of another type, or from preformed reactants; After-treatment thereof [6, 2006.01]
- using at least one organic template directing agent,
 e.g. an ionic quaternary ammonium compound or
 an aminated compound [6, 2006.01]
- Preparation of isomorphous zeolites characterised by measures to replace the aluminium or silicon atoms in the lattice framework by atoms of other elements [6, 2006.01]
- 39/08 • the aluminium atoms being wholly replaced **[6, 2006.01]**
- 39/10 • the replacing atoms being phosphorus atoms **[6, 2006.01]**
- 39/12 • the replacing atoms being boron atoms **[6, 2006.01]**
- 39/14 • Type A **[6, 2006.01]**
- 39/16 • from aqueous solutions of an alkali metal aluminate and an alkali metal silicate excluding any other source of alumina or silica but seeds [6, 2006.01]
- from a reaction mixture containing at least one aluminium silicate or aluminosilicate of a clay type, e.g. kaolin or metakaolin or its exotherm modification or allophane [6, 2006.01]
- 39/20 Faujasite type, e.g. type X or Y **[6, 2006.01]**
- 39/22 • Type X **[6, 2006.01]**
- 39/24 • Type Y **[6, 2006.01]**
- 39/26 • Mordenite type **[6, 2006.01]**
- 39/28 • Phillipsite or harmotome type, e.g. type B **[6, 2006.01]**
- 39/30 • Erionite or offretite type, e.g. zeolite T [6, 2006.01]
- 39/32 • Type L **[6, 2006.01]**
- 39/34 • Type ZSM-4 or type Ω **[6, 2006.01]**
- 39/36 Pentasil type, e.g. types ZSM-5, ZSM-8 or ZSM-11 **[6, 2006.01]**
- 39/38 • Type ZSM-5 **[6, 2006.01]**
- 39/40 • using at least one organic template directing agent [6, 2006.01]
- 39/42 • Type ZSM-12 **[6, 2006.01]**
- 39/44 Ferrierite type, e.g. types ZSM-21, ZSM-35 or ZSM-38 **[6, 2006.01]**
- Other types characterised by their X-ray diffraction pattern and their defined composition [6, 2006.01]
- 39/48 • using at least one organic template directing agent [6, 2006.01]
- 39/50 Zeolites wherein inorganic bases or salts occlude channels in the lattice framework, e.g. sodalite, cancrinite, nosean, hauynite [6, 2006.01]
- 39/52 • Sodalites [6, 2006.01]
- 39/54 Phosphates, e.g. APO or SAPO compounds **[6, 2006.01]**