

Symbol	Typ	Titel
C	Sektion	SECTION C — CHEMISTRY; METALLURGY
C04	Klasse	CEMENTS; CONCRETE; ARTIFICIAL STONE; CERAMICS; REFRACTORIES (alloys based on refractory metals C22C) [4]
C04B	Unterklasse	LIME; MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF, e.g. MORTARS, CONCRETE OR LIKE BUILDING MATERIALS; ARTIFICIAL STONE; CERAMICS (devitrified glass-ceramics C03C 10/00); REFRACTORIES; TREATMENT OF NATURAL STONE [4] <u>Lime; Magnesia; Slag</u>
C04B 2/00	Hauptgruppe	Lime, magnesia or dolomite (hydraulic lime cements C04B 7/34) [4]
C04B 2/02	1-Punkt Untergruppe	. Lime [4]
C04B 2/04	2-Punkt Untergruppe	. . Slaking [4]
C04B 2/06	3-Punkt Untergruppe	. . . with addition of substances, e.g. hydrophobic agents [4]
C04B 2/08	3-Punkt Untergruppe	. . . Devices therefor [4]
C04B 2/10	1-Punkt Untergruppe	. Preheating, burning, calcining or cooling (decarbonation during burning of cement raw materials C04B 7/43) [4]
C04B 2/12	2-Punkt Untergruppe	. . in shaft or vertical furnaces (shaft or vertical furnaces in general F27B 1/00) [4]
C04B 5/00	Hauptgruppe	Treatment of molten slag (manufacture of slag wool C03B; in, or for, the production of metals C21B, C22B); Artificial stone from molten slag (mechanical aspects B28B 1/54) [4]
C04B 5/02	1-Punkt Untergruppe	. Granulating (apparatus B01J 2/00); Dehydrating; Drying
C04B 5/06	1-Punkt Untergruppe	. Ingredients, other than water, added to the molten slag; Treatment with gases or gas generating material, e.g. to obtain porous slag [4]
		<u>Cements</u>
C04B 7/00	Hauptgruppe	Hydraulic cements (calcium sulfate cements C04B 11/00)
C04B 7/02	1-Punkt Untergruppe	. Portland cement
C04B 7/04	2-Punkt Untergruppe	. . using raw materials containing gypsum
C04B 7/06	2-Punkt Untergruppe	. . using alkaline raw materials
C04B 7/12	1-Punkt Untergruppe	. Natural pozzuolanas; Natural pozzuolana cements (cements containing slag C04B 7/14) [4]
C04B 7/13	2-Punkt Untergruppe	. . Mixtures thereof with inorganic cementitious materials, e.g. Portland cements [4]
C04B 7/14	1-Punkt Untergruppe	. Cements containing slag
C04B 7/147	2-Punkt Untergruppe	. . Metallurgical slag [4]
C04B 7/153	3-Punkt Untergruppe	. . . Mixtures thereof with other inorganic cementitious materials or other activators [4]
C04B 7/17	4-Punkt Untergruppe	 with calcium oxide containing activators [4]
C04B 7/19	5-Punkt Untergruppe	 Portland cements [4]
C04B 7/21	4-Punkt Untergruppe	 with calcium sulfate containing activators [4]
C04B 7/22	1-Punkt Untergruppe	. Iron ore cements
C04B 7/24	1-Punkt Untergruppe	. Cements from oil shales, residues or waste other than slag [4]
C04B 7/26	2-Punkt Untergruppe	. . from raw materials containing flue dust

Symbol	Typ	Titel
C04B 7/28	2-Punkt Untergruppe	. . from combustion residues (C04B 7/26 takes precedence) [4]
C04B 7/30	2-Punkt Untergruppe	. . from oil shale; from oil shale residues [4]
C04B 7/32	1-Punkt Untergruppe	. Aluminous cements
C04B 7/34	1-Punkt Untergruppe	. Hydraulic lime cements; Roman cements
C04B 7/345	1-Punkt Untergruppe	. Hydraulic cements not provided for in one of the groups C04B 7/02-C04B 7/34 [4]
C04B 7/36	1-Punkt Untergruppe	. Manufacture of hydraulic cements in general
C04B 7/38	2-Punkt Untergruppe	. . Preparing or treating the raw materials individually or as batches [4]
C04B 7/40	3-Punkt Untergruppe	. . . Dehydrating; Forming, e.g. granulating (apparatus for granulating B01J 2/00)
C04B 7/42	3-Punkt Untergruppe	. . . Active ingredients added before, or during, the burning process (after the burning process C04B 22/00, C04B 24/00)
C04B 7/43	2-Punkt Untergruppe	. . Heat treatment, e.g. precalcining, burning, melting; Cooling [4]
C04B 7/44	3-Punkt Untergruppe	. . . Burning; Melting [4]
C04B 7/45	4-Punkt Untergruppe	 in fluidised beds [4]
C04B 7/46	4-Punkt Untergruppe	 electric [4]
C04B 7/47	3-Punkt Untergruppe	. . . Cooling [4]
C04B 7/48	2-Punkt Untergruppe	. . Clinker treatment (C04B 7/47 takes precedence) [4]
C04B 7/51	3-Punkt Untergruppe	. . . Hydrating [4]
C04B 7/52	3-Punkt Untergruppe	. . . Grinding
C04B 7/60	2-Punkt Untergruppe	. . Methods for eliminating alkali metals or compounds thereof [4]
C04B 9/00	Hauptgruppe	Magnesium cements or silimar cements
C04B 9/02	1-Punkt Untergruppe	. Magnesium cements containing chlorides, e.g. Sorel cement
C04B 9/04	1-Punkt Untergruppe	. Magnesium cements containing sulfates, nitrates, phosphates, or fluorides
C04B 9/06	1-Punkt Untergruppe	. Cements containing metal compounds other than magnesium compounds, e.g. compounds of zinc or lead
C04B 9/11	1-Punkt Untergruppe	. Mixtures thereof with other inorganic cementitious materials [4]
C04B 9/12	2-Punkt Untergruppe	. . with hydraulic cements, e.g. Portland cements [4]
C04B 9/20	1-Punkt Untergruppe	. Manufacture, e.g. preparing the batches (preheating, burning, calcining or cooling lime stone, magnesite or dolomite C04B 2/10)
C04B 11/00	Hauptgruppe	Calcium sulfate cements
C04B 11/02	1-Punkt Untergruppe	. Dehydrating gypsum
C04B 11/024	2-Punkt Untergruppe	. . Ingredients added before, or during, the calcining process, e.g. calcination modifiers [4]
C04B 11/028	2-Punkt Untergruppe	. . Devices therefor [4]
C04B 11/032	3-Punkt Untergruppe	. . . for the wet process, e.g. dehydrating in solution or under saturated vapor conditions [4]
C04B 11/036	3-Punkt Untergruppe	. . . for the dry process, e.g. dehydrating in a fluidised bed or in a rotary kiln [4]
C04B 11/05	1-Punkt Untergruppe	. obtaining anhydrite (C04B 11/028 takes precedence) [4]

Symbol	Typ	Titel
C04B 11/06	1-Punkt Untergruppe	. starting from anhydrite
C04B 11/26	1-Punkt Untergruppe	. starting from phosphogypsum or from waste, e.g. purification products of smoke (C04B 11/02 takes precedence; chemical or biological purification of waste gases B01D 53/34) [4]
C04B 11/28	1-Punkt Untergruppe	. Mixtures thereof with other inorganic cementitious materials (C04B 7/04, C04B 7/153 take precedence) [4]
C04B 11/30	2-Punkt Untergruppe	. . with hydraulic cements, e.g. Portland cements [4]
C04B 12/00	Hauptgruppe	Cements not provided for in groups C04B 7/00-C04B 11/00 [4]
C04B 12/02	1-Punkt Untergruppe	. Phosphate cements (in, or for, the manufacture of ceramics C04B 33/00, C04B 35/00) [4]
C04B 12/04	1-Punkt Untergruppe	. Alkali metal or ammonium silicate cements (alkali metal silicates <u>per se</u> , their preparation C01B 33/32; ammonium silicates <u>per se</u> , their preparation C01C 1/00) [4]
		<u>Use of materials as fillers (ceramics C04B 33/00, C04B 35/00; reinforcing elements for building materials E04C 5/00) [4]</u>
C04B 14/00	Hauptgruppe	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (expanding or defibrillating materials C04B 20/00) [4]
C04B 14/02	1-Punkt Untergruppe	. Granular materials [4]
C04B 14/04	2-Punkt Untergruppe	. . Silica-rich materials; Silicates [4]
C04B 14/06	3-Punkt Untergruppe	. . . Quartz; Sand [4]
C04B 14/08	3-Punkt Untergruppe	. . . Diatomaceous earth [4]
C04B 14/10	3-Punkt Untergruppe	. . . Clay [4]
C04B 14/12	4-Punkt Untergruppe	 Expanded clay [4]
C04B 14/14	3-Punkt Untergruppe	. . . Minerals of volcanic origin [4]
C04B 14/16	4-Punkt Untergruppe	 porous, e.g. pumice [4]
C04B 14/18	4-Punkt Untergruppe	 Perlite [4]
C04B 14/20	3-Punkt Untergruppe	. . . Mica; Vermiculite [4]
C04B 14/22	3-Punkt Untergruppe	. . . Glass [4]
C04B 14/24	4-Punkt Untergruppe	 porous, e.g. foamed glass [4]
C04B 14/26	2-Punkt Untergruppe	. . Carbonates [4]
C04B 14/28	3-Punkt Untergruppe	. . . of calcium [4]
C04B 14/30	2-Punkt Untergruppe	. . Oxides other than silica [4]
C04B 14/32	2-Punkt Untergruppe	. . Carbides; Nitrides; Borides [4]
C04B 14/34	2-Punkt Untergruppe	. . Metals [4]
C04B 14/36	2-Punkt Untergruppe	. . Inorganic materials not provided for in groups C04B 14/04-C04B 14/34 [4]
C04B 14/38	1-Punkt Untergruppe	. Fibrous materials; Whiskers [4]
C04B 14/40	2-Punkt Untergruppe	. . Asbestos [4]
C04B 14/42	2-Punkt Untergruppe	. . Glass [4]

Symbol	Typ	Titel
C04B 14/44	3-Punkt Untergruppe	. . . Treatment for enhancing alkali resistance [4]
C04B 14/46	2-Punkt Untergruppe	. . Rock wool [4]
C04B 14/48	2-Punkt Untergruppe	. . Metal [4]
C04B 16/00	Hauptgruppe	Use of organic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of organic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone [4]
C04B 16/02	1-Punkt Untergruppe	. Cellulosic materials (cellulosic waste materials, e.g. sawdust, rice husks, C04B 18/24) [4]
C04B 16/04	1-Punkt Untergruppe	. Macromolecular compounds (C04B 16/02 takes precedence) [4]
C04B 16/06	2-Punkt Untergruppe	. . fibrous [4]
C04B 16/08	2-Punkt Untergruppe	. . porous, e.g. expanded polystyrene beads [4]
C04B 16/10	3-Punkt Untergruppe	. . . Treatment for enhancing the mixability with the mortar [4]
C04B 16/12	1-Punkt Untergruppe	. characterised by the shape (fibrous macromolecular compounds C04B 16/06; porous macromolecular compounds C04B 16/08) [4]
C04B 18/00	Hauptgruppe	Use of agglomerated or waste materials or refuse as fillers for mortars, concrete or artificial stone (use of waste materials for the manufacture of cement C04B 7/24); Treatment of agglomerated or waste materials or refuse, specially adapted to enhance their filling properties in mortars, concrete or artificial stone [4]
C04B 18/02	1-Punkt Untergruppe	. Agglomerated materials [4]
C04B 18/04	1-Punkt Untergruppe	. Waste materials; Refuse [4]
C04B 18/06	2-Punkt Untergruppe	. . Combustion residues, e.g. purification products of smoke, fumes or exhaust gases [4]
C04B 18/08	3-Punkt Untergruppe	. . . Flue dust [4]
C04B 18/10	3-Punkt Untergruppe	. . . Burned refuse [4]
C04B 18/12	2-Punkt Untergruppe	. . from quarries, mining or the like [4]
C04B 18/14	2-Punkt Untergruppe	. . from metallurgical processes (treatment of molten slag C04B 5/00; for manufacture of cement C04B 7/14) [4]
C04B 18/16	2-Punkt Untergruppe	. . from building or ceramic industry [4]
C04B 18/18	2-Punkt Untergruppe	. . organic (C04B 18/10 takes precedence) [4]
C04B 18/20	3-Punkt Untergruppe	. . . from macromolecular compounds [4]
C04B 18/22	4-Punkt Untergruppe	 Rubber [4]
C04B 18/24	3-Punkt Untergruppe	. . . Vegetable refuse, e.g. rice husks, maize-ear refuse; Cellulosic materials, e.g. paper [4]
C04B 18/26	4-Punkt Untergruppe	 Wood, e.g. sawdust, wood shavings [4]
C04B 18/28	4-Punkt Untergruppe	 Mineralising; Compositions therefor [4]
C04B 18/30	2-Punkt Untergruppe	. . Mixed waste; Waste of undefined composition, e.g. municipal waste (C04B 18/10 takes precedence) [4]
C04B 20/00	Hauptgruppe	Use of materials as fillers for mortars, concrete or artificial stone according to more than one of groups C04B 14/00-C04B 18/00 and characterised by shape or grain distribution; Treatment of materials according to more than one of the groups C04B 14/00-C04B 18/00 specially adapted to enhance their filling properties in mortars, concrete or artificial stone; Expanding or defibrillating materials [4]
C04B 20/02	1-Punkt Untergruppe	. Treatment [4]

Symbol	Typ	Titel
C04B 20/04	2-Punkt Untergruppe	. . Heat treatment [4]
C04B 20/06	3-Punkt Untergruppe	. . . Expanding clay, perlite, vermiculite or like granular materials [4]
C04B 20/08	2-Punkt Untergruppe	. . Defibrillating asbestos [4]
C04B 20/10	1-Punkt Untergruppe	. Coating or impregnating [4]
C04B 20/12	2-Punkt Untergruppe	. . Multiple coating or impregnating [4]
C04B 22/00	Hauptgruppe	<u>Use of materials as active ingredients [4]</u> Use of inorganic materials as active ingredients for mortars, concrete or artificial stone, e.g. accelerators [4]
C04B 22/02	1-Punkt Untergruppe	. Elements [4]
C04B 22/04	2-Punkt Untergruppe	. . Metals, e.g. aluminium used as blowing agent [4]
C04B 22/06	1-Punkt Untergruppe	. Oxides; Hydroxides [4]
C04B 22/08	1-Punkt Untergruppe	. Acids or salts thereof [4]
C04B 22/10	2-Punkt Untergruppe	. . containing carbon in the anion, e.g. carbonates [4]
C04B 22/12	2-Punkt Untergruppe	. . containing halogen in the anion, e.g. calcium chloride [4]
C04B 22/14	2-Punkt Untergruppe	. . containing sulfur in the anion, e.g. sulfides [4]
C04B 22/16	2-Punkt Untergruppe	. . containing phosphorus in the anion, e.g. phosphates [4]
C04B 24/00	Hauptgruppe	Use of organic materials as active ingredients for mortars, concrete or artificial stone, e.g. plasticisers [4]
C04B 24/02	1-Punkt Untergruppe	. Alcohols; Phenols; Ethers [4]
C04B 24/04	1-Punkt Untergruppe	. Carboxylic acids; Salts, anhydrides or esters thereof [4]
C04B 24/06	2-Punkt Untergruppe	. . containing hydroxy groups [4]
C04B 24/08	1-Punkt Untergruppe	. Fats; Fatty oils; Ester type waxes; Higher fatty acids, i.e. having at least seven carbon atoms in an unbroken chain bound to a carboxyl group; Oxidised oils or fats [4]
C04B 24/10	1-Punkt Untergruppe	. Carbohydrates or derivatives thereof [4]
C04B 24/12	1-Punkt Untergruppe	. Nitrogen containing compounds [4]
C04B 24/14	2-Punkt Untergruppe	. . Peptides; Proteins; Derivatives thereof [4]
C04B 24/16	1-Punkt Untergruppe	. Sulfur-containing compounds [4]
C04B 24/18	2-Punkt Untergruppe	. . Lignin sulfonic acid or derivatives thereof, e.g. sulfite lye [4]
C04B 24/20	2-Punkt Untergruppe	. . Sulfonated aromatic compounds [4]
C04B 24/22	3-Punkt Untergruppe	. . . Condensation products thereof [4]
C04B 24/24	1-Punkt Untergruppe	. Macromolecular compounds (C04B 24/14 takes precedence; macromolecular compounds comprising sulfonate or sulfate groups C04B 24/16) [4, 6]
C04B 24/26	2-Punkt Untergruppe	. . obtained by reactions only involving carbon-to-carbon unsaturated bonds [4]
C04B 24/28	2-Punkt Untergruppe	. . obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds [4]
C04B 24/30	3-Punkt Untergruppe	. . . Condensation polymers of aldehydes or ketones [4]

Symbol	Typ	Titel
C04B 24/32	3-Punkt Untergruppe	. . . Polyethers, e.g. alkylphenol polyglycoether [4]
C04B 24/34	2-Punkt Untergruppe	. . Natural resins, e.g. rosin [4]
C04B 24/36	2-Punkt Untergruppe	. . Bituminous materials, e.g. tar, pitch [4]
C04B 24/38	2-Punkt Untergruppe	. . Polysaccharides or derivatives thereof [4]
C04B 24/40	1-Punkt Untergruppe	. Compounds containing silicon, titanium or zirconium [4]
C04B 24/42	2-Punkt Untergruppe	. . Compounds having one or more carbon-to-silicon linkages [4]
<u>Compositions of mortars, concrete or artificial stone (artificial stone from molten slag C04B 5/00)</u>		
[4]		
C04B 26/00	Hauptgruppe	Compositions of mortars, concrete or artificial stone, containing only organic binders [4]
C04B 26/02	1-Punkt Untergruppe	. Macromolecular compounds [4]
C04B 26/04	2-Punkt Untergruppe	. . obtained by reactions only involving carbon-to-carbon unsaturated bonds [4]
C04B 26/06	3-Punkt Untergruppe	. . . Acrylates [4]
C04B 26/08	3-Punkt Untergruppe	. . . containing halogen [4]
C04B 26/10	2-Punkt Untergruppe	. . obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds [4]
C04B 26/12	3-Punkt Untergruppe	. . . Condensation polymers of aldehydes or ketones [4]
C04B 26/14	3-Punkt Untergruppe	. . . Polyepoxides [4]
C04B 26/16	3-Punkt Untergruppe	. . . Polyurethanes [4]
C04B 26/18	3-Punkt Untergruppe	. . . Polyesters; Polycarbonates [4]
C04B 26/20	3-Punkt Untergruppe	. . . Polyamides [4]
C04B 26/22	2-Punkt Untergruppe	. . Natural resins, e.g. rosin [4]
C04B 26/24	3-Punkt Untergruppe	. . . Cellulosic waste liquor, e.g. sulfite lye [4]
C04B 26/26	2-Punkt Untergruppe	. . Bituminous materials, e.g. tar, pitch [4]
C04B 26/28	2-Punkt Untergruppe	. . Polysaccharides or derivatives thereof [4]
C04B 26/30	1-Punkt Untergruppe	. Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4]
C04B 26/32	2-Punkt Untergruppe	. . containing silicon [4]
C04B 28/00	Hauptgruppe	Compositions of mortars, concrete or artificial stone, containing inorganic binders or the reaction product of an inorganic and an organic binder, e.g. polycarboxylate cements [4]
C04B 28/02	1-Punkt Untergruppe	. containing hydraulic cements other than calcium sulfates [4]
C04B 28/04	2-Punkt Untergruppe	. . Portland cements [4]
C04B 28/06	2-Punkt Untergruppe	. . Aluminous cements (monolithic refractories or refractory mortars C04B 35/66) [4]
C04B 28/08	2-Punkt Untergruppe	. . Slag cements [4]
C04B 28/10	2-Punkt Untergruppe	. . Lime cements or magnesium oxide cements [4]
C04B 28/12	3-Punkt Untergruppe	. . . Hydraulic lime [4]
C04B 28/14	1-Punkt Untergruppe	. containing calcium sulfate cements [4]

Symbol	Typ	Titel
C04B 28/16	2-Punkt Untergruppe	. . containing anhydrite [4]
C04B 28/18	1-Punkt Untergruppe	. containing mixtures of the silica-lime type [4]
C04B 28/20	2-Punkt Untergruppe	. . Sand-lime [4]
C04B 28/22	2-Punkt Untergruppe	. . Lime and pozzuolanas [4]
C04B 28/24	1-Punkt Untergruppe	. containing alkyl ammonium or alkali metal silicates; containing silica sols [4]
C04B 28/26	2-Punkt Untergruppe	. . Silicates of the alkali metals [4]
C04B 28/28	1-Punkt Untergruppe	. containing organic polyacids, e.g. polycarboxylate cements [4]
C04B 28/30	1-Punkt Untergruppe	. containing magnesium cements (magnesium oxide cements C04B 28/10) [4]
C04B 28/32	2-Punkt Untergruppe	. . Magnesium oxychloride cements, e.g. Sorel cement [4]
C04B 28/34	1-Punkt Untergruppe	. containing cold phosphate binders [4]
C04B 28/36	1-Punkt Untergruppe	. containing sulfur, sulfides or selenium [4]
C04B 30/00	Hauptgruppe	Compositions for artificial stone, not containing binders [4]
C04B 30/02	1-Punkt Untergruppe	. containing fibrous materials [4]
C04B 32/00	Hauptgruppe	Artificial stone not provided for in other groups of this subclass [4]
C04B 32/02	1-Punkt Untergruppe	. with reinforcements [4]
		<u>Ceramics</u>
C04B 33/00	Hauptgruppe	Clay-wares (monolithic refractories or refractory mortars C04B 35/66; porous products C04B 38/00) [2]
C04B 33/02	1-Punkt Untergruppe	. Preparing or treating the raw materials individually or as batches
C04B 33/04	2-Punkt Untergruppe	. . Clay; Kaolin
C04B 33/06	3-Punkt Untergruppe	. . . Rendering lime harmless
C04B 33/08	4-Punkt Untergruppe	 Preventing efflorescence
C04B 33/10	2-Punkt Untergruppe	. . Eliminating iron or lime
C04B 33/13	2-Punkt Untergruppe	. . Compounding ingredients (C04B 33/36, C04B 35/71 take precedence) [2]
<i>C04B 33/132</i>	<i>3-Punkt Untergruppe</i>	<i>. . . Waste materials; Refuse (C04B 33/16 takes precedence) [2006.01]</i>
<i>C04B 33/135</i>	<i>4-Punkt Untergruppe</i>	<i>. . . . Combustion residues, e.g fly ash, incineration waste [2006.01]</i>
<i>C04B 33/138</i>	<i>4-Punkt Untergruppe</i>	<i>. . . . from metallurgical processes, e.g. slag, furnace dust, galvanic waste [2006.01]</i>
C04B 33/14	3-Punkt Untergruppe	. . . Colouring matters
C04B 33/16	3-Punkt Untergruppe	. . . Lean materials, e.g. grog, quartz
C04B 33/18	3-Punkt Untergruppe	. . . for liquefying the batches
C04B 33/20	2-Punkt Untergruppe	. . for dry-pressing (C04B 33/13 takes precedence)
C04B 33/22	1-Punkt Untergruppe	. Grog products
C04B 33/24	1-Punkt Untergruppe	. Manufacture of porcelain or white ware
C04B 33/26	2-Punkt Untergruppe	. . of porcelain for electrical insulation

Symbol	Typ	Titel
C04B 33/28	1-Punkt Untergruppe	. Slip casting (mechanical features B28B 1/26)
C04B 33/30	1-Punkt Untergruppe	. Drying methods
C04B 33/32	1-Punkt Untergruppe	. Burning methods
C04B 33/34	2-Punkt Untergruppe	. . combined with glazing
C04B 33/36	1-Punkt Untergruppe	. Reinforced clay-wares [2]
C04B 35/00	Hauptgruppe	Shaped ceramic products characterised by their composition (porous products C04B 38/00; articles characterised by particular shape, <u>see</u> the relevant classes, e.g. linings for casting ladles, tundishes, cups or the like B22D 41/02); Ceramic compositions (containing free metal bonded to carbides, diamond, oxides, borides, nitrides, silicides, e.g. cermets, or other metal compounds, e.g. oxynitrides or sulfides, other than as macroscopic reinforcing agents C22C); Processing powders of inorganic compounds preparatory to the manufacturing of ceramic products (chemical preparation of powders of inorganic compounds C01) [4]
C04B 35/01	1-Punkt Untergruppe	. based on oxides [6]
C04B 35/03	2-Punkt Untergruppe	. . based on magnesium oxide, calcium oxide or oxide mixtures derived from dolomite [6]
C04B 35/035	3-Punkt Untergruppe	. . . Refractories from grain sized mixtures containing non-oxide refractory materials, e.g. carbon [6]
C04B 35/04	3-Punkt Untergruppe	. . . based on magnesium oxide [6]
C04B 35/043	4-Punkt Untergruppe	 Refractories from grain sized mixtures [6]
C04B 35/047	5-Punkt Untergruppe	 containing chromium oxide or chrome ore [6]
C04B 35/05	4-Punkt Untergruppe	 Refractories by fusion casting [6]
C04B 35/053	4-Punkt Untergruppe	 Fine ceramics [6]
C04B 35/057	3-Punkt Untergruppe	. . . based on calcium oxide [6]
C04B 35/06	3-Punkt Untergruppe	. . . based on oxide mixtures derived from dolomite
C04B 35/08	2-Punkt Untergruppe	. . based on beryllium oxide [6]
C04B 35/10	2-Punkt Untergruppe	. . based on aluminium oxide [6]
C04B 35/101	3-Punkt Untergruppe	. . . Refractories from grain sized mixtures [6]
C04B 35/103	4-Punkt Untergruppe	 containing non-oxide refractory materials, e.g. carbon (C04B 35/106 takes precedence) [6]
C04B 35/105	4-Punkt Untergruppe	 containing chromium oxide or chrome ore [6]
C04B 35/106	4-Punkt Untergruppe	 containing zirconium oxide or zircon (ZrSiO ₄) [6]
C04B 35/107	3-Punkt Untergruppe	. . . Refractories by fusion casting [6]
C04B 35/109	4-Punkt Untergruppe	 containing zirconium oxide or zircon (ZrSiO ₄) [6]
C04B 35/111	3-Punkt Untergruppe	. . . Fine ceramics [6]
C04B 35/113	4-Punkt Untergruppe	 based on beta-aluminium oxide [6]
C04B 35/115	4-Punkt Untergruppe	 Translucent or transparent products [6]
C04B 35/117	4-Punkt Untergruppe	 Composites [6]
C04B 35/119	5-Punkt Untergruppe	 with zirconium oxide [6]

Symbol	Typ	Titel
C04B 35/12	2-Punkt Untergruppe	. . based on chromium oxide (C04B 35/047, C04B 35/105 take precedence) [6]
C04B 35/14	2-Punkt Untergruppe	. . based on silica [6]
C04B 35/16	2-Punkt Untergruppe	. . based on silicates other than clay [6]
C04B 35/18	3-Punkt Untergruppe	. . . rich in aluminium oxide [6]
C04B 35/185	4-Punkt Untergruppe	 Mullite [6]
C04B 35/19	4-Punkt Untergruppe	 Alkali metal aluminosilicates, e.g. spodumene [6]
C04B 35/195	4-Punkt Untergruppe	 Alkaline earth aluminosilicates, e.g. cordierite [6]
C04B 35/20	3-Punkt Untergruppe	. . . rich in magnesium oxide [6]
C04B 35/22	3-Punkt Untergruppe	. . . rich in calcium oxide [6]
C04B 35/26	2-Punkt Untergruppe	. . based on ferrites [2, 6]
C04B 35/28	3-Punkt Untergruppe	. . . with nickel oxide as the principal oxide [2, 6]
C04B 35/30	4-Punkt Untergruppe	 with zinc oxide [2, 6]
C04B 35/32	3-Punkt Untergruppe	. . . with cobalt oxide as the principal oxide [2, 6]
C04B 35/34	4-Punkt Untergruppe	 with zinc oxide [2, 6]
C04B 35/36	3-Punkt Untergruppe	. . . with manganese oxide as the principal oxide [2, 6]
C04B 35/38	4-Punkt Untergruppe	 with zinc oxide [2, 6]
C04B 35/40	3-Punkt Untergruppe	. . . with rare earth oxide [2, 6]
C04B 35/42	2-Punkt Untergruppe	. . based on chromites (C04B 35/047, C04B 35/105 take precedence) [2, 6]
C04B 35/44	2-Punkt Untergruppe	. . based on aluminates [2, 6]
C04B 35/443	3-Punkt Untergruppe	. . . Magnesium aluminate spinel [6]
C04B 35/447	2-Punkt Untergruppe	. . based on phosphates [6]
C04B 35/45	2-Punkt Untergruppe	. . based on copper oxide or solid solutions thereof with other oxides [6]
C04B 35/453	2-Punkt Untergruppe	. . based on zinc, tin or bismuth oxides or solid solutions thereof with other oxides, e.g. zincates, stannates or bismuthates [6]
C04B 35/457	3-Punkt Untergruppe	. . . based on tin oxides or stannates [6]
C04B 35/46	2-Punkt Untergruppe	. . based on titanium oxides or titanates (containing also zirconium or hafnium oxides, zirconates or hafnates C04B 35/49) [6]
C04B 35/462	3-Punkt Untergruppe	. . . based on titanates [6]
C04B 35/465	4-Punkt Untergruppe	 based on alkaline earth metal titanates [6]
C04B 35/468	5-Punkt Untergruppe	 based on barium titanates [6]
C04B 35/47	5-Punkt Untergruppe	 based on strontium titanates [6]
C04B 35/472	4-Punkt Untergruppe	 based on lead titanates [6]
C04B 35/475	4-Punkt Untergruppe	 based on bismuth titanates [6]

Symbol	Typ	Titel
C04B 35/478	4-Punkt Untergruppe	 based on aluminium titanates [6]
C04B 35/48	2-Punkt Untergruppe	. . based on zirconium or hafnium oxides or zirconates or hafnates [6]
C04B 35/482	3-Punkt Untergruppe	. . . Refractories from grain sized mixtures [6]
C04B 35/484	3-Punkt Untergruppe	. . . Refractories by fusion casting [6]
C04B 35/486	3-Punkt Untergruppe	. . . Fine ceramics [6]
C04B 35/488	4-Punkt Untergruppe	 Composites [6]
C04B 35/49	3-Punkt Untergruppe	. . . containing also titanium oxide or titanates [3, 6]
C04B 35/491	4-Punkt Untergruppe	 based on lead zirconates and lead titanates [6]
C04B 35/493	5-Punkt Untergruppe	 containing also other lead compounds [6]
C04B 35/495	2-Punkt Untergruppe	. . based on vanadium, niobium, tantalum, molybdenum or tungsten oxides or solid solutions thereof with other oxides, e.g. vanadates, niobates, tantalates, molybdates or tungstates [6]
C04B 35/497	3-Punkt Untergruppe	. . . based on solid solutions with lead oxide [6]
C04B 35/499	4-Punkt Untergruppe	 containing also titanates [6]
C04B 35/50	1-Punkt Untergruppe	. based on rare earth compounds
C04B 35/505	2-Punkt Untergruppe	. . based on yttrium oxide [6]
C04B 35/51	1-Punkt Untergruppe	. based on compounds of actinides (nuclear fuel materials G21C 3/62) [2]
C04B 35/515	1-Punkt Untergruppe	. based on non-oxides (C04B 35/50, C04B 35/51 take precedence) [6]
C04B 35/52	2-Punkt Untergruppe	. . based on carbon, e.g. graphite [6]
C04B 35/524	3-Punkt Untergruppe	. . . obtained from polymer precursors, e.g. glass-like carbon material [6]
C04B 35/528	3-Punkt Untergruppe	. . . obtained from carbonaceous particles with or without other non-organic components [6]
C04B 35/532	4-Punkt Untergruppe	 containing a carbonisable binder [6]
C04B 35/536	3-Punkt Untergruppe	. . . based on expanded graphite [6]
C04B 35/547	2-Punkt Untergruppe	. . based on sulfides or selenides [6]
C04B 35/553	2-Punkt Untergruppe	. . based on fluorides [6]
C04B 35/56	2-Punkt Untergruppe	. . based on carbides [4]
C04B 35/563	3-Punkt Untergruppe	. . . based on boron carbide [6]
C04B 35/565	3-Punkt Untergruppe	. . . based on silicon carbide [6]
C04B 35/567	4-Punkt Untergruppe	 Refractories from grain sized mixtures [6]
C04B 35/569	4-Punkt Untergruppe	 Fine ceramics [6]
C04B 35/571	5-Punkt Untergruppe	 obtained from polymer precursors [6]
C04B 35/573	5-Punkt Untergruppe	 obtained by reaction sintering [6]
C04B 35/575	5-Punkt Untergruppe	 obtained by pressure sintering [6]

Symbol	Typ	Titel
C04B 35/576	5-Punkt Untergruppe	 obtained by sintering without pressure [6]
C04B 35/577	5-Punkt Untergruppe	 Composites [6]
C04B 35/58	2-Punkt Untergruppe	. . based on borides, nitrides or silicides [4, 6]
C04B 35/581	3-Punkt Untergruppe	. . . based on aluminium nitride [6]
C04B 35/582	4-Punkt Untergruppe	 Composites [6]
C04B 35/583	3-Punkt Untergruppe	. . . based on boron nitride [6]
C04B 35/5831	4-Punkt Untergruppe	 based on cubic boron nitride [6]
C04B 35/5833	4-Punkt Untergruppe	 based on hexagonal boron nitride [6]
C04B 35/5835	4-Punkt Untergruppe	 Composites [6]
C04B 35/584	3-Punkt Untergruppe	. . . based on silicon nitride [6]
C04B 35/586	4-Punkt Untergruppe	 Refractories from grain sized mixtures [6]
C04B 35/587	4-Punkt Untergruppe	 Fine ceramics [6]
C04B 35/589	5-Punkt Untergruppe	 obtained from polymer precursors [6]
C04B 35/591	5-Punkt Untergruppe	 obtained by reaction sintering [6]
C04B 35/593	5-Punkt Untergruppe	 obtained by pressure sintering (C04B 35/594 takes precedence) [6]
C04B 35/594	5-Punkt Untergruppe	 obtained by sintering a reaction-sintered product, with or without pressure [6]
C04B 35/596	5-Punkt Untergruppe	 Composites [6]
C04B 35/597	3-Punkt Untergruppe	. . . based on silicon oxynitrides [6]
C04B 35/599	4-Punkt Untergruppe	 based on silicon aluminium oxynitrides (SIALONS) [6]
C04B 35/622	1-Punkt Untergruppe	. Forming processes; Processing powders of inorganic compounds preparatory to the manufacturing of ceramic products [6]
C04B 35/624	2-Punkt Untergruppe	. . Sol-gel processing [6]
C04B 35/626	2-Punkt Untergruppe	. . Preparing or treating the powders individually or as batches [6]
C04B 35/628	3-Punkt Untergruppe	. . . Coating the powders [6]
C04B 35/63	3-Punkt Untergruppe	. . . using additives specially adapted for forming the products [6]
C04B 35/632	4-Punkt Untergruppe	 Organic additives [6]
C04B 35/634	5-Punkt Untergruppe	 Polymers (C04B 35/636 takes precedence) [6]
C04B 35/636	5-Punkt Untergruppe	 Polysaccharides or derivatives thereof [6]
C04B 35/638	4-Punkt Untergruppe	 Removal thereof [6]
C04B 35/64	2-Punkt Untergruppe	. . Burning or sintering processes (C04B 33/32 takes precedence) [6]
C04B 35/645	3-Punkt Untergruppe	. . . Pressure sintering [6]
C04B 35/65	3-Punkt Untergruppe	. . . Reaction sintering of free metal- or free silicon-containing compositions [3]

Symbol	Typ	Titel
C04B 35/653	2-Punkt Untergruppe	. . Processes involving a melting step [6]
C04B 35/657	3-Punkt Untergruppe	. . . for manufacturing refractories (C04B 35/05, C04B 35/107, C04B 35/484 take precedence) [6]
C04B 35/66	1-Punkt Untergruppe	. Monolithic refractories or refractory mortars, including those whether or not containing clay
C04B 35/71	1-Punkt Untergruppe	. Ceramic products containing macroscopic reinforcing agents (C04B 35/66 takes precedence) [3, 4]
C04B 35/74	2-Punkt Untergruppe	. . containing shaped metallic materials [2]
C04B 35/76	3-Punkt Untergruppe	. . . Fibres, filaments, whiskers, platelets, or the like [2]
C04B 35/78	2-Punkt Untergruppe	. . containing non-metallic materials [2]
C04B 35/80	3-Punkt Untergruppe	. . . Fibres, filaments, whiskers, platelets, or the like [2]
C04B 35/81	4-Punkt Untergruppe	 Whiskers [6]
C04B 35/82	4-Punkt Untergruppe	 Asbestos; Glass; Fused silica [2]
C04B 35/83	4-Punkt Untergruppe	 Carbon fibres in a carbon matrix [6]
C04B 35/84	3-Punkt Untergruppe	. . . Impregnated or coated materials [2]
C04B 37/00	Hauptgruppe	Joining burned ceramic articles with other burned ceramic articles or other articles by heating (laminated products B32B, E04C)
C04B 37/02	1-Punkt Untergruppe	. with metallic articles
C04B 37/04	1-Punkt Untergruppe	. with articles made from glass
C04B 38/00	Hauptgruppe	Porous mortars, concrete, artificial stone or ceramic ware; Preparation thereof (treating slag with gases or gas generating material C04B 5/06) [4, 6]
C04B 38/02	1-Punkt Untergruppe	. by adding chemical blowing agents [4]
C04B 38/04	1-Punkt Untergruppe	. by dissolving-out added substances [4]
C04B 38/06	1-Punkt Untergruppe	. by burning-out added substances [4]
C04B 38/08	1-Punkt Untergruppe	. by adding porous substances [4]
C04B 38/10	1-Punkt Untergruppe	. by using foaming agents (C04B 38/02 takes precedence) [4]
C04B 40/00	Hauptgruppe	Processes, in general, for influencing or modifying the properties of mortars, concrete or artificial stone compositions, e.g. their setting or hardening ability (active ingredients C04B 22/00-C04B 24/00; hardening of a well-defined composition C04B 26/00-C04B 28/00; making porous, cellular or lightening C04B 38/00; mechanical aspects B28, e.g. conditioning the materials prior to shaping B28B 17/02) [4, 6]
C04B 40/02	1-Punkt Untergruppe	. Selection of the hardening environment [4]
C04B 40/04	1-Punkt Untergruppe	. Preventing evaporation of the mixing water (permanent coverings C04B 41/00) [4]
C04B 40/06	1-Punkt Untergruppe	. Inhibiting the setting, e.g. mortars of the deferred action type containing water in breakable containers [4]
C04B 41/00	Hauptgruppe	After-treatment of mortars, concrete, artificial stone or ceramics; Treatment of natural stone (conditioning of the materials prior to shaping C04B 40/00; applying liquids or other fluent materials to surfaces, in general B05; grinding or polishing B24; apparatus or processes for treating or working shaped articles of clay or other ceramic compositions, slag or mixtures containing cementitious material B28B 11/00; working stone or stone-like materials B28D; glazes, other than cold glazes, C03C 8/00; etching, surface-brightening or pickling compositions C09K 13/00) [3]
C04B 41/45	1-Punkt Untergruppe	. Coating or impregnating (paints C09D) [4]

Symbol	Typ	Titel
C04B 41/46	2-Punkt Untergruppe	. . with organic materials [4]
C04B 41/47	3-Punkt Untergruppe	. . . Oils, fats or waxes [4]
C04B 41/48	3-Punkt Untergruppe	. . . Macromolecular compounds [4]
C04B 41/49	3-Punkt Untergruppe	. . . Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4]
C04B 41/50	2-Punkt Untergruppe	. . with inorganic materials [4]
C04B 41/51	3-Punkt Untergruppe	. . . Metallising [4]
C04B 41/52	2-Punkt Untergruppe	. . Multiple coating or impregnating [4]
C04B 41/53	1-Punkt Untergruppe	. involving the removal of part of the materials of the treated article [4]
C04B 41/60	1-Punkt Untergruppe	. of only artificial stone [4]
C04B 41/61	2-Punkt Untergruppe	. . Coating or impregnating [4]
C04B 41/62	3-Punkt Untergruppe	. . . with organic materials [4]
C04B 41/63	4-Punkt Untergruppe	 Macromolecular compounds [4]
C04B 41/64	4-Punkt Untergruppe	 Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4]
C04B 41/65	3-Punkt Untergruppe	. . . with inorganic materials [4]
C04B 41/66	4-Punkt Untergruppe	 Fluorides, e.g. ocratation [4]
C04B 41/67	4-Punkt Untergruppe	 Phosphates [4]
C04B 41/68	4-Punkt Untergruppe	 Silicic acid; Silicates [4]
C04B 41/69	4-Punkt Untergruppe	 Metals [4]
C04B 41/70	3-Punkt Untergruppe	. . . for obtaining at least two superposed coatings having different compositions [4]
C04B 41/71	4-Punkt Untergruppe	 at least one coating being an organic material [4]
C04B 41/72	2-Punkt Untergruppe	. . involving the removal of part of the materials of the treated articles, e.g. etching [4]
C04B 41/80	1-Punkt Untergruppe	. of only ceramics [4]
C04B 41/81	2-Punkt Untergruppe	. . Coating or impregnating [4]
C04B 41/82	3-Punkt Untergruppe	. . . with organic materials [4]
C04B 41/83	4-Punkt Untergruppe	 Macromolecular compounds [4]
C04B 41/84	4-Punkt Untergruppe	 Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4]
C04B 41/85	3-Punkt Untergruppe	. . . with inorganic materials [4]
C04B 41/86	4-Punkt Untergruppe	 Glazes; Cold glazes [4]
C04B 41/87	4-Punkt Untergruppe	 Ceramics [4]
C04B 41/88	4-Punkt Untergruppe	 Metals [4]
C04B 41/89	3-Punkt Untergruppe	. . . for obtaining at least two superposed coatings having different compositions [4]
C04B 41/90	4-Punkt Untergruppe	 at least one coating being a metal [4]

Symbol	Typ	Titel
C04B 41/91	2-Punkt Untergruppe	. . involving the removal of part of the materials of the treated articles, e.g. etching [4]
<u>Indexing scheme associated with groups C04B 22/00 and C04B 24/00, relating to the function or property of the active ingredients. [6]</u>		
C04B 103/00	Hauptgruppe	Function or property of the active ingredients [6]
C04B 103/10	1-Punkt Untergruppe	. Accelerators [6]
C04B 103/12	2-Punkt Untergruppe	. . Set accelerators [6]
C04B 103/14	2-Punkt Untergruppe	. . Hardening accelerators [6]
C04B 103/20	1-Punkt Untergruppe	. Retarders [6]
C04B 103/22	2-Punkt Untergruppe	. . Set retarders [6]
C04B 103/24	2-Punkt Untergruppe	. . Hardening retarders [6]
C04B 103/30	1-Punkt Untergruppe	. Water reducers, plasticisers, air-entrainers [6]
C04B 103/32	2-Punkt Untergruppe	. . Superplasticisers [6]
C04B 103/40	1-Punkt Untergruppe	. Surface-active agents, dispersants [6]
C04B 103/42	1-Punkt Untergruppe	. Pore formers [6]
C04B 103/44	1-Punkt Untergruppe	. Thickening, gelling or viscosity increasing agents [6]
C04B 103/46	1-Punkt Untergruppe	. Water-loss reducers, hygroscopic or hydrophilic agents [6]
C04B 103/48	1-Punkt Untergruppe	. Foam stabilisers [6]
C04B 103/50	1-Punkt Untergruppe	. Defoamers, air detrainers [6]
C04B 103/52	1-Punkt Untergruppe	. Grinding aids [6]
C04B 103/54	1-Punkt Untergruppe	. Pigments; Dyes [6]
C04B 103/56	1-Punkt Untergruppe	. Opacifiers [6]
C04B 103/60	1-Punkt Untergruppe	. Agents for protection against chemical, physical or biological attack [6]
C04B 103/61	2-Punkt Untergruppe	. . Corrosion inhibitors [6]
C04B 103/63	2-Punkt Untergruppe	. . Flame-proofing agents [6]
C04B 103/65	2-Punkt Untergruppe	. . Water proofers or repellants [6]
C04B 103/67	2-Punkt Untergruppe	. . Biocides [6]
C04B 103/69	3-Punkt Untergruppe	. . . Fungicides [6]
<u>Indexing scheme associated with groups C04B 26/00-C04B 32/00, relating to the function, property or use of the mortars, concrete or artificial stone. [6]</u>		
C04B 111/00	Hauptgruppe	Function, property or use of the mortars, concrete or artificial stone [6]
C04B 111/10	1-Punkt Untergruppe	. Compositions characterized by the absence of a specified material [6]
C04B 111/12	2-Punkt Untergruppe	. . Absence of asbestos, e.g. cement-asbestos substitutes [6]
C04B 111/20	1-Punkt Untergruppe	. Resistance against chemical, physical or biological attack [6]
C04B 111/21	2-Punkt Untergruppe	. . Efflorescence resistance [6]

Symbol	Typ	Titel
C04B 111/22	2-Punkt Untergruppe	. . Carbonation resistance [6]
C04B 111/23	2-Punkt Untergruppe	. . Acid resistance [6]
C04B 111/24	2-Punkt Untergruppe	. . Sea water resistance [6]
C04B 111/25	2-Punkt Untergruppe	. . Graffiti resistance [6]
C04B 111/26	2-Punkt Untergruppe	. . Corrosion of reinforcement resistance [6]
C04B 111/27	2-Punkt Untergruppe	. . Water resistance, i.e. waterproof or water repellant materials [6]
C04B 111/28	2-Punkt Untergruppe	. . Fire resistance [6]
C04B 111/30	1-Punkt Untergruppe	. . Nailable or sawable materials [6]
C04B 111/32	1-Punkt Untergruppe	. . Expansion inhibited materials [6]
C04B 111/34	1-Punkt Untergruppe	. . Non-shrinking materials [6]
C04B 111/40	1-Punkt Untergruppe	. . Porous or lightweight materials [6]
C04B 111/42	2-Punkt Untergruppe	. . Floating materials [6]
C04B 111/50	1-Punkt Untergruppe	. . Flexible or elastic materials [6]
C04B 111/52	1-Punkt Untergruppe	. . Sound insulating materials [6]
C04B 111/54	1-Punkt Untergruppe	. . Substitutes for natural stone, e.g. artificial marble [6]
C04B 111/56	1-Punkt Untergruppe	. . Compositions suited for fabrication of pipes, e.g. by centrifugal casting [6]
C04B 111/60	1-Punkt Untergruppe	. . Flooring materials [6]
C04B 111/62	2-Punkt Untergruppe	. . Self-levelling compositions [6]
C04B 111/70	1-Punkt Untergruppe	. . Grouts [6]
C04B 111/72	1-Punkt Untergruppe	. . Compositions used for repairing existing buildings or building materials [6]
C04B 111/74	1-Punkt Untergruppe	. . Underwater applications [6]
C04B 111/76	1-Punkt Untergruppe	. . Use at sub-zero temperatures [6]
C04B 111/80	1-Punkt Untergruppe	. . Optical properties, e.g. transparency [6]
C04B 111/82	2-Punkt Untergruppe	. . Coloured materials [6]
C04B 111/90	1-Punkt Untergruppe	. . Electrical properties [6]
C04B 111/92	2-Punkt Untergruppe	. . Electrically insulating materials [6]
C04B 111/94	2-Punkt Untergruppe	. . Electrically conducting materials [6]