

Symbol	Typ	Titel
C	Sektion	CHEMISTRY; METALLURGY
C22	Klasse	METALLURGY (of iron C21); FERROUS OR NON-FERROUS ALLOYS; TREATMENT OF ALLOYS OR NON-FERROUS METALS (general methods or devices for heat treatment of ferrous or non-ferrous metals or alloys C21D; production of metals by electrolysis or electrophoresis C25)
C22C	Unterklasse	ALLOYS (flints C06C 15/00; treatment of alloys C21D , C22F) <u>Non-ferrous alloys, i.e. alloys based essentially on metals other than iron (master alloys for iron and steel C22C 35/00; alloys containing radioactive material C22C 43/00; amorphous alloys C22C 45/00; alloys containing fibres or filaments C22C 47/00 , C22C 49/00) [2, 5]</u>
C22C 1/00	Hauptgruppe	Making alloys (powder-metallurgical apparatus or processes, not specially modified for making alloys B22F; by electrothermic methods C22B 4/00; by electrolysis C25C)
C22C 1/02	1-Punkt Untergruppe	. by melting
C22C 1/03	2-Punkt Untergruppe	. . using master alloys [2]
C22C 1/04	1-Punkt Untergruppe	. by powder metallurgy (C22C 1/08 takes precedence) [2]
C22C 1/05	2-Punkt Untergruppe	. . Mixtures of metal powder with non-metallic powder (C22C 1/08 takes precedence) [2]
C22C 1/06	1-Punkt Untergruppe	. with the use of special agents for refining or deoxidising
C22C 1/08	1-Punkt Untergruppe	. Alloys with open or closed pores
C22C 1/09	Gelöscht	(transferred to C22C 47/00; C22C 49/00)
C22C 1/10	1-Punkt Untergruppe	. Alloys containing non-metals (C22C 1/08 takes precedence) [2]
C22C 3/00	Hauptgruppe	Removing material from alloys to produce alloys of different constitution
C22C 5/00	Hauptgruppe	Alloys based on noble metals
C22C 5/02	1-Punkt Untergruppe	. Alloys based on gold [2]
C22C 5/04	1-Punkt Untergruppe	. Alloys based on a platinum group metal [2]
C22C 5/06	1-Punkt Untergruppe	. Alloys based on silver [2]
C22C 5/08	2-Punkt Untergruppe	. . with copper as the next major constituent [2]
C22C 5/10	2-Punkt Untergruppe	. . with cadmium as the next major constituent [2]
C22C 7/00	Hauptgruppe	Alloys based on mercury
C22C 9/00	Hauptgruppe	Alloys based on copper
C22C 9/01	1-Punkt Untergruppe	. with aluminium as the next major constituent [2]
C22C 9/02	1-Punkt Untergruppe	. with tin as the next major constituent [2]
C22C 9/04	1-Punkt Untergruppe	. with zinc as the next major constituent [2]
C22C 9/05	1-Punkt Untergruppe	. with manganese as the next major constituent [2]
C22C 9/06	1-Punkt Untergruppe	. with nickel or cobalt as the next major constituent [2]
C22C 9/08	1-Punkt Untergruppe	. with lead as the next major constituent [2]
C22C 9/10	1-Punkt Untergruppe	. with silicon as the next major constituent
C22C 11/00	Hauptgruppe	Alloys based on lead
C22C 11/02	1-Punkt Untergruppe	. with an alkali or an alkaline earth metal as the next major constituent [2]

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C22C 11/04	1-Punkt Untergruppe	. with copper as the next major constituent [2]
C22C 11/06	1-Punkt Untergruppe	. with tin as the next major constituent [2]
C22C 11/08	1-Punkt Untergruppe	. with antimony or bismuth as the next major constituent [2]
C22C 11/10	2-Punkt Untergruppe	. . with tin [2]
C22C 12/00	Hauptgruppe	Alloys based on antimony or bismuth [2]
C22C 13/00	Hauptgruppe	Alloys based on tin
C22C 13/02	1-Punkt Untergruppe	. with antimony or bismuth as the next major constituent [2]
C22C 14/00	Hauptgruppe	Alloys based on titanium [2]
C22C 16/00	Hauptgruppe	Alloys based on zirconium [2]
C22C 18/00	Hauptgruppe	Alloys based on zinc [2]
C22C 18/02	1-Punkt Untergruppe	. with copper as the next major constituent [2]
C22C 18/04	1-Punkt Untergruppe	. with aluminium as the next major constituent [2]
C22C 19/00	Hauptgruppe	Alloys based on nickel or cobalt
C22C 19/03	1-Punkt Untergruppe	. based on nickel [2]
C22C 19/05	2-Punkt Untergruppe	. . with chromium [2]
C22C 19/07	1-Punkt Untergruppe	. based on cobalt [2]
C22C 20/00	Hauptgruppe	Alloys based on cadmium [2]
C22C 21/00	Hauptgruppe	Alloys based on aluminium
C22C 21/02	1-Punkt Untergruppe	. with silicon as the next major constituent [2]
C22C 21/04	2-Punkt Untergruppe	. . Modified aluminium-silicon alloys
C22C 21/06	1-Punkt Untergruppe	. with magnesium as the next major constituent [2]
C22C 21/08	2-Punkt Untergruppe	. . with silicon [2]
C22C 21/10	1-Punkt Untergruppe	. with zinc as the next major constituent [2]
C22C 21/12	1-Punkt Untergruppe	. with copper as the next major constituent [2]
C22C 21/14	2-Punkt Untergruppe	. . with silicon [2]
C22C 21/16	2-Punkt Untergruppe	. . with magnesium [2]
C22C 21/18	2-Punkt Untergruppe	. . with zinc [2]
C22C 22/00	Hauptgruppe	Alloys based on manganese [2]
C22C 23/00	Hauptgruppe	Alloys based on magnesium
C22C 23/02	1-Punkt Untergruppe	. with aluminium as the next major constituent [2]
C22C 23/04	1-Punkt Untergruppe	. with zinc or cadmium as the next major constituent [2]
C22C 23/06	1-Punkt Untergruppe	. with a rare earth metal as the next major constituent [2]
C22C 24/00	Hauptgruppe	Alloys based on an alkali or an alkaline earth metal [2]
C22C 25/00	Hauptgruppe	Alloys based on beryllium
C22C 26/00	Hauptgruppe	Alloys containing diamond [4]
C22C 27/00	Hauptgruppe	Alloys based on rhenium or a refractory metal not mentioned in groups C22C 14/00 or C22C 16/00 [2]

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C22C 27/02	1-Punkt Untergruppe	. Alloys based on vanadium, niobium or tantalum [2]
C22C 27/04	1-Punkt Untergruppe	. Alloys based on tungsten or molybdenum [2]
C22C 27/06	1-Punkt Untergruppe	. Alloys based on chromium [2]
C22C 28/00	Hauptgruppe	Alloys based on a metal not provided for in groups C22C 5/00 to C22C 27/00 [2]
C22C 29/00	Hauptgruppe	Alloys based on carbides, oxides, borides, nitrides or silicides, e.g. cermets, or other metal compounds, e. g. oxynitrides, sulfides [4]
C22C 29/02	1-Punkt Untergruppe	. based on carbides or carbonitrides [4]
C22C 29/04	2-Punkt Untergruppe	. . based on carbonitrides [4]
C22C 29/06	2-Punkt Untergruppe	. . based on carbides, but not containing other metal compounds [4]
C22C 29/08	3-Punkt Untergruppe	. . . based on tungsten carbide [4]
C22C 29/10	3-Punkt Untergruppe	. . . based on titanium carbide [4]
C22C 29/12	1-Punkt Untergruppe	. based on oxides [4]
C22C 29/14	1-Punkt Untergruppe	. based on borides [4]
C22C 29/16	1-Punkt Untergruppe	. based on nitrides [4]
C22C 29/18	1-Punkt Untergruppe	. based on silicides [4]
C22C 30/00	Hauptgruppe	Alloys containing less than 50% by weight of each constituent [2]
C22C 30/02	1-Punkt Untergruppe	. containing copper [2]
C22C 30/04	1-Punkt Untergruppe	. containing tin or lead [2]
C22C 30/06	1-Punkt Untergruppe	. containing zinc [2]
C22C 32/00	Hauptgruppe	Non-ferrous alloys containing at least 5% by weight but less than 50% by weight of oxides, carbides, borides, nitrides, silicides or other metal compounds, e.g. oxynitrides, sulfides, whether added as such or formed in situ [2] <u>Ferrous alloys, i.e. alloys based on iron (alloys containing radioactive material C22C 43/00; amorphous alloys C22C 45/00; alloys containing fibres or filaments C22C 47/00 , C22C 49/00; heat treatment thereof C21D) [2, 5]</u>
C22C 33/00	Hauptgruppe	Making ferrous alloys
C22C 33/02	1-Punkt Untergruppe	. by powder metallurgy (working metallic powder B22F)
C22C 33/04	1-Punkt Untergruppe	. by melting [2]
C22C 33/06	2-Punkt Untergruppe	. . using master alloys [2]
C22C 33/08	1-Punkt Untergruppe	. Making cast-iron alloys [2]
C22C 33/10	2-Punkt Untergruppe	. . including procedures for adding magnesium [2]
C22C 33/12	3-Punkt Untergruppe	. . . by fluidised injection [2]
C22C 35/00	Hauptgruppe	Master alloys for iron or steel
C22C 37/00	Hauptgruppe	Cast-iron alloys [2]
C22C 37/04	1-Punkt Untergruppe	. containing spheroidal graphite
C22C 37/06	1-Punkt Untergruppe	. containing chromium [2]
C22C 37/08	2-Punkt Untergruppe	. . with nickel

Symbol	Typ	Titel
C22C 37/10	1-Punkt Untergruppe	. containing aluminium or silicon
C22C 38/00	Hauptgruppe	Ferrous alloys, e.g. steel alloys (cast-iron alloys C22C 37/00) [2]
C22C 38/02	1-Punkt Untergruppe	. containing silicon [2]
C22C 38/04	1-Punkt Untergruppe	. containing manganese [2]
C22C 38/06	1-Punkt Untergruppe	. containing aluminium [2]
C22C 38/08	1-Punkt Untergruppe	. containing nickel [2]
C22C 38/10	1-Punkt Untergruppe	. containing cobalt [2]
C22C 38/12	1-Punkt Untergruppe	. containing tungsten, tantalum, molybdenum, vanadium or niobium [2]
C22C 38/14	1-Punkt Untergruppe	. containing titanium or zirconium [2]
C22C 38/16	1-Punkt Untergruppe	. containing copper [2]
C22C 38/18	1-Punkt Untergruppe	. containing chromium [2]
C22C 38/20	2-Punkt Untergruppe	. . with copper [2]
C22C 38/22	2-Punkt Untergruppe	. . with molybdenum or tungsten [2]
C22C 38/24	2-Punkt Untergruppe	. . with vanadium [2]
C22C 38/26	2-Punkt Untergruppe	. . with niobium or tantalum [2]
C22C 38/28	2-Punkt Untergruppe	. . with titanium or zirconium [2]
C22C 38/30	2-Punkt Untergruppe	. . with cobalt [2]
C22C 38/32	2-Punkt Untergruppe	. . with boron [2]
C22C 38/34	2-Punkt Untergruppe	. . with more than 1.5% by weight of silicon [2]
C22C 38/36	2-Punkt Untergruppe	. . with more than 1.7% by weight of carbon [2]
C22C 38/38	2-Punkt Untergruppe	. . with more than 1.5% by weight of manganese [2]
C22C 38/40	2-Punkt Untergruppe	. . with nickel [2]
C22C 38/42	3-Punkt Untergruppe	. . . with copper [2]
C22C 38/44	3-Punkt Untergruppe	. . . with molybdenum or tungsten [2]
C22C 38/46	3-Punkt Untergruppe	. . . with vanadium [2]
C22C 38/48	3-Punkt Untergruppe	. . . with niobium or tantalum [2]
C22C 38/50	3-Punkt Untergruppe	. . . with titanium or zirconium [2]
C22C 38/52	3-Punkt Untergruppe	. . . with cobalt [2]
C22C 38/54	3-Punkt Untergruppe	. . . with boron [2]
C22C 38/56	3-Punkt Untergruppe	. . . with more than 1.7% by weight of carbon [2]
C22C 38/58	3-Punkt Untergruppe	. . . with more than 1.5% by weight of manganese [2]
C22C 38/60	1-Punkt Untergruppe	. containing lead, selenium, tellurium or antimony, or more than 0.04% by weight of sulfur [2]

Symbol	Typ	Titel
C22C 43/00	Hauptgruppe	Alloys containing radioactive materials [2]
C22C 45/00	Hauptgruppe	Amorphous alloys [5]
C22C 45/02	1-Punkt Untergruppe	. with iron as the major constituent [5]
C22C 45/04	1-Punkt Untergruppe	. with nickel or cobalt as the major constituent [5]
C22C 45/06	1-Punkt Untergruppe	. with beryllium as the major constituent [5]
C22C 45/08	1-Punkt Untergruppe	. with aluminium as the major constituent [5]
C22C 45/10	1-Punkt Untergruppe	. with molybdenum, tungsten, niobium, tantalum, titanium, or zirconium as the major constituent [5]
		<u>Alloys containing fibres or filaments [7]</u>
C22C 47/00	Hauptgruppe	Making alloys containing metallic or non-metallic fibres or filaments [7]
C22C 47/02	1-Punkt Untergruppe	. Pretreatment of the fibres or filaments [7]
C22C 47/04	2-Punkt Untergruppe	. . by coating, e.g. with a protective or activated covering [7]
C22C 47/06	2-Punkt Untergruppe	. . by forming the fibres or filaments into a preformed structure, e.g. using a temporary binder to form a mat-like element [7]
C22C 47/08	1-Punkt Untergruppe	. by contacting the fibres or filaments with molten metal, e.g. by infiltrating the fibres or filaments placed in a mould [7]
C22C 47/10	2-Punkt Untergruppe	. . Infiltration in the presence of a reactive atmosphere ; Reactive infiltration [7]
C22C 47/12	2-Punkt Untergruppe	. . Infiltration or casting under mechanical pressure [7]
C22C 47/14	1-Punkt Untergruppe	. by powder metallurgy, i.e. by processing mixtures of metal powder and fibres or filaments [7]
C22C 47/16	1-Punkt Untergruppe	. by thermal spraying of the metal, e.g. plasma spraying [7]
C22C 47/18	2-Punkt Untergruppe	. . using a preformed structure of fibres or filaments [7]
C22C 47/20	1-Punkt Untergruppe	. by subjecting to pressure and heat an assembly comprising at least one metal layer or sheet and one layer of fibres or filaments [7]
C22C 49/00	Hauptgruppe	Alloys containing metallic or non-metallic fibres or filaments [7]
C22C 49/02	1-Punkt Untergruppe	. characterised by the matrix material [7]
C22C 49/04	2-Punkt Untergruppe	. . Light metals [7]
C22C 49/06	3-Punkt Untergruppe	. . . Aluminium [7]
C22C 49/08	2-Punkt Untergruppe	. . Iron group metals [7]
C22C 49/10	2-Punkt Untergruppe	. . Refractory metals [7]
C22C 49/11	3-Punkt Untergruppe	. . . Titanium [7]
C22C 49/12	2-Punkt Untergruppe	. . Intermetallic matrix material [7]
C22C 49/14	1-Punkt Untergruppe	. characterised by the fibres or filaments [7]
		<u>Indexing scheme associated with groups C22C 47/00 and C22C 49/00 , relating to the nature of the fibrous materials contained in metal-fibrous composites. The indexing codes should be <u>unlinked.</u> [7]</u>
C22C 101/00	Hauptgruppe	Non-metallic fibres or filaments [7]
C22C 101/02	1-Punkt Untergruppe	. based on oxides, e.g. oxide ceramic fibres [7]
C22C 101/04	2-Punkt Untergruppe	. . Aluminium oxide [7]

Symbol	Typ	Titel
C22C 101/06	2-Punkt Untergruppe	. . Mixed oxides, e.g. aluminium silicate or glass [7]
C22C 101/08	1-Punkt Untergruppe	. based on non-oxides, e.g. non-oxide ceramic fibres [7]
C22C 101/10	2-Punkt Untergruppe	. . Carbon [7]
C22C 101/12	2-Punkt Untergruppe	. . Carbides [7]
C22C 101/14	3-Punkt Untergruppe	. . . Silicon carbide [7]
C22C 101/16	2-Punkt Untergruppe	. . Nitrides [7]
C22C 101/18	3-Punkt Untergruppe	. . . Silicon nitride [7]
C22C 101/20	2-Punkt Untergruppe	. . Boron [7]
C22C 101/22	2-Punkt Untergruppe	. . Borides [7]
C22C 111/00	Hauptgruppe	Metallic fibres or filaments [7]
C22C 111/02	1-Punkt Untergruppe	. Refractory metal fibres or filaments, e.g. tungsten fibres [7]
C22C 121/00	Hauptgruppe	Pretreated fibres or filaments [7]
C22C 121/02	1-Punkt Untergruppe	. Coated fibres or filaments, e.g. ceramic fibres with protective coatings [7]