

**CPC****COOPERATIVE PATENT CLASSIFICATION****F05C****INDEXING SCHEME RELATING TO MATERIALS, MATERIAL PROPERTIES OR MATERIAL CHARACTERISTICS FOR MACHINES, ENGINES OR PUMPS OTHER THAN NON-POSITIVE-DISPLACEMENT MACHINES OR ENGINES****NOTE**

This subclass constitutes an internal scheme for indexing only.

**F05C 2201/00****Metals**

F05C 2201/02	. Light metals
F05C 2201/021	.. Aluminium
F05C 2201/023	.. Beryllium
F05C 2201/025	.. Boron
F05C 2201/026	.. Lithium
F05C 2201/028	.. Magnesium
F05C 2201/04	. Heavy metals
F05C 2201/0403	.. Refractory metals, e.g. V, W
F05C 2201/0406	... Chromium
F05C 2201/0409	... Molybdenum
F05C 2201/0412	... Titanium
F05C 2201/0415	... Zirconium
F05C 2201/0418	.. Noble metals
F05C 2201/0421	... Silver
F05C 2201/0424	... Gold
F05C 2201/0427	... Platinum group, e.g. Pt, Ir
F05C 2201/043	.. Rare earth metals, e.g. Sc, Y
F05C 2201/0433	.. Iron group; Ferrous alloys, e.g. steel
F05C 2201/0436	... Iron
F05C 2201/0439	.... Cast iron
F05C 2201/0442	..... Spheroidal graphite cast iron, e.g. nodular iron, ductile iron
F05C 2201/0445	..... Austempered ductile iron (ADI)
F05C 2201/0448	... Steel
F05C 2201/0451	.... Cast steel
F05C 2201/0454	.... Case-hardened steel
F05C 2201/0457	.... Cemented steel
F05C 2201/046	.... Stainless steel or inox, e.g. 18-8
F05C 2201/0463	... Cobalt
F05C 2201/0466	... Nickel

F05C 2201/0469	..	Other heavy metals
F05C 2201/0472	...	Cadmium
F05C 2201/0475	...	Copper or alloys thereof
F05C 2201/0478	....	Bronze (Cu/Sn alloy)
F05C 2201/0481	....	Brass (Cu/Zn alloy)
F05C 2201/0484	....	Nickel-Copper alloy, e.g. monel
F05C 2201/0487	...	Manganese
F05C 2201/049	...	Lead
F05C 2201/0493	...	Tin
F05C 2201/0496	...	Zinc
F05C 2201/90	.	Alloys not otherwise provided for
F05C 2201/903	..	Aluminium alloy, e.g. AlCuMgPb F34,37
F05C 2201/906	..	Phosphor-bronze alloy

### **Inorganic materials**

#### **F05C 2203/00 Non-metallic inorganic materials**

F05C 2203/02	.	Glass
F05C 2203/04	.	Phosphor
F05C 2203/06	.	Silicon
F05C 2203/08	.	Ceramics; Oxides
F05C 2203/0804	..	Non-oxide ceramics
F05C 2203/0808	...	Carbon, e.g. graphite
F05C 2203/0813	...	Carbides
F05C 2203/0817	....	of silicon
F05C 2203/0821	....	of titanium, e.g. TiC
F05C 2203/0826	....	of wolfram, e.g. tungsten carbide
F05C 2203/083	...	Nitrides
F05C 2203/0834	....	of aluminium
F05C 2203/0839	....	of boron
F05C 2203/0843	....	of silicon
F05C 2203/0847	....	of titanium
F05C 2203/0852	....	of zirconium
F05C 2203/0856	...	Sulfides
F05C 2203/086	....	of molybdenum
F05C 2203/0865	..	not used, see subgroups
F05C 2203/0869	...	Aluminium oxide
F05C 2203/0873	....	Sapphire
F05C 2203/0878	...	Aluminium titanate
F05C 2203/0882	...	Carbon, e.g. graphite

F05C 2203/0886	...	Silica
F05C 2203/0891	...	Zinc oxide
F05C 2203/0895	...	Zirconium oxide

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**F05C 2211/00      Inorganic materials not otherwise provided for**


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**F05C 2221/00      Leather**
**Organic materials**
**F05C 2223/00      Cellulosic materials, e.g. wood**
**F05C 2225/00      Synthetic polymers, e.g. plastics; Rubber**

F05C 2225/02	.	Rubber
F05C 2225/04	.	PTFE (PolyTetraFluorEthylene)
F05C 2225/06	.	Polyamides, e.g. NYLON
F05C 2225/08	.	Thermoplastics
F05C 2225/10	.	Polyimides, e.g. Aurum
F05C 2225/12	.	Polyetheretherketones, e.g. PEEK

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**F05C 2231/00      Organic materials not otherwise provided for**


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**F05C 2251/00      Material properties**

F05C 2251/02	.	Elasticity
F05C 2251/04	.	Thermal properties
F05C 2251/042	..	Expansivity
F05C 2251/044	...	similar
F05C 2251/046	...	dissimilar
F05C 2251/048	..	Heat transfer
F05C 2251/06	.	Reflective properties
F05C 2251/08	.	Shape memory
F05C 2251/10	.	Hardness
F05C 2251/12	.	Magnetic properties
F05C 2251/125	..	non-magnetic
F05C 2251/14	.	Self lubricating materials; Solid lubricants

**Material properties or characteristics**
**F05C 2253/00      Other material characteristics; Treatment of material**

F05C 2253/02	.	Fabric
F05C 2253/025	..	woven
F05C 2253/04	.	Composite, e.g. fibre-reinforced

<a href="#">F05C 2253/06</a>	. Amorphous
<a href="#">F05C 2253/08</a>	. Crystalline
<a href="#">F05C 2253/083</a>	. . Directionally-solidified crystalline structure
<a href="#">F05C 2253/0831</a>	. . . monocrystalline
<a href="#">F05C 2253/10</a>	. Syntactic
<a href="#">F05C 2253/12</a>	. Coating
<a href="#">F05C 2253/14</a>	. Foam
<a href="#">F05C 2253/16</a>	. Fibres
<a href="#">F05C 2253/18</a>	. Filler
<a href="#">F05C 2253/20</a>	. Resin
<a href="#">F05C 2253/22</a>	. Reinforcements
<a href="#">F05C 2253/24</a>	. Heat treatment