

# 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.

<b>2201/00</b>	<b>Metals</b>
2201/02	. Light metals
2201/021	. . Aluminium
2201/023	. . Beryllium
2201/025	. . Boron
2201/026	. . Lithium
2201/028	. . Magnesium
2201/04	. Heavy metals
2201/0403	. . Refractory metals, e.g. V, W
2201/0406	. . . Chromium
2201/0409	. . . Molybdenum
2201/0412	. . . Titanium
2201/0415	. . . Zirconium
2201/0418	. . Noble metals
2201/0421	. . . Silver
2201/0424	. . . Gold
2201/0427	. . . Platinum group, e.g. Pt, Ir
2201/043	. . Rare earth metals, e.g. Sc, Y
2201/0433	. . Iron group; Ferrous alloys, e.g. steel
2201/0436	. . . Iron
2201/0439	. . . . Cast iron
2201/0442	. . . . . Spheroidal graphite cast iron, e.g. nodular iron, ductile iron
2201/0445	. . . . . Austempered ductile iron [ADI]
2201/0448	. . . Steel
2201/0451	. . . . Cast steel
2201/0454	. . . . Case-hardened steel
2201/0457	. . . . Cemented steel
2201/046	. . . . Stainless steel or inox, e.g. 18-8
2201/0463	. . . Cobalt
2201/0466	. . . Nickel
2201/0469	. . Other heavy metals
2201/0472	. . . Cadmium
2201/0475	. . . Copper or alloys thereof
2201/0478	. . . . Bronze (Cu/Sn alloy)
2201/0481	. . . . Brass (Cu/Zn alloy)
2201/0484	. . . . Nickel-Copper alloy, e.g. monel
2201/0487	. . . Manganese
2201/049	. . . Lead
2201/0493	. . . Tin
2201/0496	. . . Zinc
2201/90	. Alloys not otherwise provided for
2201/903	. . Aluminium alloy, e.g. AlCuMgPb F34,37
2201/906	. . Phosphor-bronze alloy

### Inorganic materials

<b>2203/00</b>	<b>Non-metallic inorganic materials</b>
2203/02	. Glass
2203/04	. Phosphor

2203/06	. Silicon
2203/08	. Ceramics; Oxides
2203/0804	. . Non-oxide ceramics
2203/0808	. . . Carbon, e.g. graphite
2203/0813	. . . Carbides
2203/0817	. . . . of silicon
2203/0821	. . . . of titanium, e.g. TiC
2203/0826	. . . . of wolfram, e.g. tungsten carbide
2203/083	. . . Nitrides
2203/0834	. . . . of aluminium
2203/0839	. . . . of boron
2203/0843	. . . . of silicon
2203/0847	. . . . of titanium
2203/0852	. . . . of zirconium
2203/0856	. . . Sulfides
2203/086	. . . . of molybdenum
2203/0865	. . not used, see subgroups
2203/0869	. . . Aluminium oxide
2203/0873	. . . . Sapphire
2203/0878	. . . Aluminium titanate
2203/0882	. . . Carbon, e.g. graphite
2203/0886	. . . Silica
2203/0891	. . . Zinc oxide
2203/0895	. . . Zirconium oxide

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

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### **2221/00 Leather**

### Organic materials

<b>2223/00</b>	<b>Cellulosic materials, e.g. wood</b>
<b>2225/00</b>	<b>Synthetic polymers, e.g. plastics; Rubber</b>
2225/02	. Rubber
2225/04	. PTFE [PolyTetraFluorEthylene]
2225/06	. Polyamides, e.g. NYLON
2225/08	. Thermoplastics
2225/10	. Polyimides, e.g. Aurum
2225/12	. Polyetheretherketones, e.g. PEEK

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

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<b>2251/00</b>	<b>Material properties</b>
2251/02	. Elasticity
2251/04	. Thermal properties
2251/042	. . Expansivity
2251/044	. . . similar
2251/046	. . . dissimilar

- 2251/048 . . Heat transfer
- 2251/06 . Reflective properties
- 2251/08 . Shape memory
- 2251/10 . Hardness
- 2251/12 . Magnetic properties
- 2251/125 . . non-magnetic
- 2251/14 . Self lubricating materials; Solid lubricants

#### **Material properties or characteristics**

- 2253/00 Other material characteristics; Treatment of material**
- 2253/02 . Fabric
- 2253/025 . . woven
- 2253/04 . Composite, e.g. fibre-reinforced
- 2253/06 . Amorphous
- 2253/08 . Crystalline
- 2253/083 . . Directionally-solidified crystalline structure
- 2253/0831 . . . monocrystalline
- 2253/10 . Syntactic
- 2253/12 . Coating
- 2253/14 . Foam
- 2253/16 . Fibres
- 2253/18 . Filler
- 2253/20 . Resin
- 2253/22 . Reinforcements
- 2253/24 . Heat treatment