

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.

Guidance heading:**F05C 2201/00****Metals**

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|----------------|--|
| 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 |

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|----------------|------|--|
| 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 |

Guidance heading: 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 |

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|----------------|------|-------------------------|
| 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 |

F05C 2211/00 Inorganic materials not otherwise provided for

Guidance heading:

F05C 2221/00 Leather

Guidance heading: Organic materials

F05C 2223/00 Cellulosic materials, e.g. wood

F05C 2225/00 Synthetic polymers, e.g. plastics; Rubber

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|--------------|---|----------------------------------|
| 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 |

F05C 2231/00 Organic materials not otherwise provided for

Guidance heading:

F05C 2251/00 Material properties

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|---------------|----|--------------------|
| F05C 2251/02 | . | Elasticity |
| F05C 2251/04 | . | Thermal properties |
| F05C 2251/042 | .. | Expansivity |

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|---------------|-------|--|
| 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 |

Guidance heading: 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 |
| F05C 2253/06 | . | Amorphous |
| F05C 2253/08 | . | Crystalline |
| F05C 2253/083 | . . | Directionally-solidified crystalline structure |
| F05C 2253/0831 | . . . | monocrystalline |
| F05C 2253/10 | . | Syntactic |
| F05C 2253/12 | . | Coating |
| F05C 2253/14 | . | Foam |
| F05C 2253/16 | . | Fibres |
| F05C 2253/18 | . | Filler |
| F05C 2253/20 | . | Resin |
| F05C 2253/22 | . | Reinforcements |
| F05C 2253/24 | . | Heat treatment |