CPC COOPERATIVE PATENT CLASSIFICATION

D06M TREATMENT, NOT PROVIDED FOR ELSEWHERE IN CLASS D06, OF FIBRES, THREADS, YARNS, FABRICS, FEATHERS, OR FIBROUS GOODS MADE FROM SUCH MATERIALS (surface treatment of fibres or filaments from glass, minerals or slags { also in the form of fabrics if the chemical aspects of the treatment are important}C03C 25/00; treatment of textiles by mechanical means, see D06B to D06J)

NOTE

1. In each of the groups D06M 11/00 to D06M 15/00, in the absence of an indication to the contrary, a substance is classified in the last appropriate place.

2. Within each one of main groups D06M 11/00 to D06M 15/00, a mixture of substances is classified at least according to the essential ingredient. If more than one ingredient is essential, the mixture is classified, in the absence of an indication to the contrary, according to the essential ingredient which belongs to the last appropriate place in the sequence of substances;

3. Treatment by mixtures of substances covered by two or more of main groups D06M 11/00 to D06M 15/00 is classified in each appropriate main group.

4. In this subclass, the treatment of textiles, not provided for for elsewhere in class D06 , is classified according to the following principles:
   - Treatment of textiles characterised by the treating agent in groups D06M 11/00 to D06M 16/00;
   - Treatment of textiles characterised by the process in group D06M 23/00.

D06M 7/00 **Treating fibres, threads, yarns, fabrics, or fibrous goods made of other substances with subsequent freeing of the treated goods from the treating medium, e.g. swelling, {e.g. polyolefins}** (D06M 10/00 takes precedence; treating fibres or filaments made of glass, mineral -, or slag wool C03C; {carbon fibres D01F 11/10})

D06M 7/005 . {made of asbestos}

D06M 10/00 **Physical treatment of fibres, threads, yarns, fabrics, or fibrous goods made from such materials, e.g. ultrasonic, corona discharge, irradiation, electric currents, magnetic fields; Physical treatment combined with treatment with chemical compounds or elements**

D06M 10/001 . {Treatment with visible light, infra-red or ultra-violet, X-rays}

D06M 10/003 . {Treatment with radio-waves or micro-waves}

D06M 10/005 . {Laser beam treatment}

D06M 10/006 . {Ultra-high-frequency heating}

D06M 10/008 . {Treatment with radioactive elements or with neutrons, alpha, beta or gamma rays}

D06M 10/02 . ultrasonic or sonic; Corona discharge

D06M 10/025 . . {Corona discharge or low temperature plasma}

D06M 10/04 . Physical treatment combined with treatment with chemical compounds or elements (graft polymerisation using wave energy or particle radiation D06M 14/18; {treatment with radioactive elements D06M 10/008})

D06M 10/06 . . Inorganic compounds or elements

D06M 10/08 . . Organic compounds

D06M 10/10 . . . Macromolecular compounds

D06M 11/00 **Treating fibres, threads, yarns, fabrics, or fibrous goods made from such materials, with inorganic substances or complexes thereof; Such treatment combined with mechanical treatment, e.g. mercerising** (D06M 10/00 takes precedence; decorating textiles by local treatment D06Q 1/00)

NOTE

1. If a compound used in the treatment is characterised by its cation, it is classified in group D06M 11/00; metallisation by treatment with a metal salt, followed by reduction, is classified in group D06M 11/83.

2. In this group, the following term is used with the meaning indicated:

   – "treatment" means, in the absence of an indication to the contrary, the treatment which leads to the end product, e.g. treatment with barium sulfate can mean treatment with barium chloride and with sulfuric acid in two separate steps

D06M 11/01 . with hydrogen, water or heavy water; with hydrides of metals or complexes thereof; with boranes, diboranes, silanes, disilanes, phosphines, diphosphines, stibines, distibines, arsines, or diarsines or complexes thereof

D06M 11/05 . . with water, e.g. steam; with heavy water

D06M 11/07 . with halogens; with halogen acids or salts thereof; with oxides or oxyacids of halogens or salts thereof

D06M 11/09 . . with free halogens or interhalogen compounds

D06M 11/11 . . with halogen acids or salts thereof

D06M 11/13 . . . Ammonium halides or halides of elements of the first Group of the Periodic System

D06M 11/155 . . . Halides of elements of the second Group of the Periodic System

D06M 11/17 . . . Halides of elements of the third Group of the Periodic System

D06M 11/20 . . . Halides of elements of the fourth Group of the Periodic System, e.g. zirconyl chloride

D06M 11/22 . . . Halides of elements of the fifth Group of the Periodic System

D06M 11/24 . . . Halides of elements of the sixth Group of the Periodic System, e.g. chromyl chloride

D06M 11/26 . . . Halides of elements of the seventh Group of the Periodic System (interhalogen compounds D06M 11/09)

D06M 11/28 . . . Halides of elements of the eighth Group of the Periodic System

D06M 11/30 . . with oxides of halogens, oxyacids of halogens or their salts, e.g. with perchlorates

D06M 11/32 . with oxygen, ozone, ozonides, oxides, hydroxides or percompounds; Salts derived from anions with an amphoteric element-oxygen bond (with water or heavy water D06M 11/05; with oxides or oxyacids of halogens D06M 11/30; bleaching D06L)

D06M 11/34 . . with oxygen, ozone or ozonides

D06M 11/36 . . with oxides, hydroxides or mixed oxides; with salts derived from anions with an amphoteric element-oxygen bond

D06M 11/38 . . . Oxides or hydroxides of elements of the first Group of the Periodic System (producing patterns by locally destroying or modifying the fibres by chemical action D06Q 1/02)

D06M 11/385 . . . . {Saponification of cellulose-acetate}

D06M 11/40 . . . . combined with, or in absence of, mechanical tension, e.g. slack mercerising

D06M 11/42 . . . . Oxides or hydroxides of copper, silver or gold

D06M 11/44 . . . Oxides or hydroxides of elements of the second Group of the Periodic System; Zincates; Cadmates

D06M 11/45 . . . Oxides or hydroxides of elements of the third Group of the Periodic System; Aluminates

D06M 11/46 . . . Oxides or hydroxides of elements of the fourth Group of the Periodic System; Titanates; Zirconates; Stannates; Plumbates

D06M 11/47 . . . Oxides or hydroxides of elements of the fifth Group of the Periodic System; Vanadates; Niobates; Tantalates; Arsenates: Antimonates; Bismuthates

D06M 11/48 . . . Oxides or hydroxides of chromium, molybdenum or tungsten; Chromates; Dichromates; Molybdates; Tungstates

D06M 11/485 . . . . {Oxides or hydroxides of manganese; Manganates (permanganates D06M 11/50)}

D06M 11/49 . . . Oxides or hydroxides of elements of the eighth Group of the Periodic System; Ferrates; Cobaltates; Nickelates; Ruthenates; Osmates; Rhodates; Iridates; Palladates; Platinates

D06M 11/50 . . with hydrogen peroxide or peroxides of metals; with persulfuric, permanganic, pernitric, percarbonic acids or their salts

D06M 11/51 . with sulfur, selenium, tellurium, polonium or compounds thereof (with persulfuric acids or their salts D06M 11/50)

D06M 11/52 . . with selenium, tellurium, polonium or their compounds; with sulfur, dithionites or compounds containing sulfur and halogens, with or without oxygen; by sulfohalogenation with chlorosulfonic acid; by sulfohalogenation with a mixture of sulfur dioxide and free halogens

D06M 11/53 . . with hydrogen sulfide or its salts; with polysulfides

D06M 11/54 . . with sulfur dioxide; with sulfurous acid or its salts (D06M 11/52 takes precedence)

D06M 11/55 . . with sulfur trioxide; with sulfuric acid or thiosulfuric acid or their salts

D06M 11/56 . . . Sulfates or thiosulfates other than of elements of the third Group of the Periodic System

D06M 11/57 . . . Sulfates or thiosulfates of elements of the third Group of the Periodic System, e.g. alums

D06M 11/58 . with nitrogen or compounds thereof, e.g. with nitrides (with ammonium halides D06M 11/13)

D06M 11/59 . . with ammonia; with complexes of organic amines with inorganic substances

D06M 11/60 . . . Ammonia as a gas or in solution

D06M 11/61 . . . Liquid ammonia

D06M 11/62 . . . Complexes of metal oxides or complexes of metal salts with ammonia or with organic amines

D06M 11/63 . . with hydroxylamine or hydrazine

D06M 11/64 . . with nitrogen oxides; with oxyacids of nitrogen or their salts (with pernitric acids or their salts D06M 11/50)

D06M 11/65 . . . Salts of oxyacids of nitrogen

D06M 11/66 . . with sulfamic acid or its salts

D06M 11/67 . . with cyanogen or compounds thereof, e.g. with cyanhydric acid, cyanic acid, isocyanic acid, thiocyanic acid, isothiocyanic acid or their salts, or with cyanamides; with carbamic acid or its salts (with dicyanamides D06M 13/432)

D06M 11/68 . with phosphorus or compounds thereof, e.g. with chlorophosphonic acid or salts thereof (with phosphines or diphosphines D06M 11/01; with selenium or tellurium compounds D06M 11/52; with polyphosphazene or derivatives thereof D06M 15/673)

D06M 11/69 . . with phosphorus; with halides or oxyhalides of phosphorus; with chlorophosphonic acid or its salts

D06M 11/70 . . with oxides of phosphorus; with hypophosphorous, phosphorous or phosphoric acids or their salts

D06M 11/71 . . . Salts of phosphoric acids

D06M 11/72 . . with metaphosphoric acids or their salts; with polyphosphoric acids or their salts; with perphosphoric acids or their salts

D06M 11/73 . with carbon or compounds thereof (D06M 11/67 takes precedence)

D06M 11/74 . . with carbon or graphite; with carbides; with graphitic acids or their salts

D06M 11/75 . . with phosgene; with compounds containing both carbon and sulfur, e.g thiophosgene (with thiocyanic acid D06M 11/67; with thiocarbamic acid D06M 13/425; with thiourea D06M 13/432)

D06M 11/76 . . with carbon oxides or carbonates (D06M 11/75 takes precedence; with percarbonic acids or their salts D06M 11/50; with urea D06M 13/432)

D06M 11/77 . with silicon or compounds thereof (with silanes or disilanes D06M 11/01)

D06M 11/78 . . with silicon; with halides or oxyhalides of silicon; with fluorosilicates

D06M 11/79 . . with silicon dioxide, silicic acids or their salts

D06M 11/80 . with boron or compounds thereof, e.g. borides (with boranes or diboranes D06M 11/01; with boron carbides D06M 11/74)

D06M 11/81 . . with boron; with boron halides; with fluoroborates

D06M 11/82 . . with boron oxides; with boric, meta- or perboric acids or their salts, e.g. with borax

D06M 11/83 . with metals; with metal-generating compounds, e.g. metal carbonyls; Reduction of metal compounds on textiles (decorating textiles by locally metallising D06Q 1/04)

D06M 11/84 . combined with mechanical treatment (combined with mechanical tension, e.g. mercerising D06M 11/40)

D06M 13/00 **Treating fibres, threads, yarns, fabrics or fibrous goods made from such materials, with non-macromolecular organic compounds** (D06M 10/00, D06M 14/00 take precedence; treatment with complexes of organic amines with inorganic substances D06M 11/59)**; Such treatment combined with mechanical treatment**

NOTE

In this group the following term is used with the meaning indicated:

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