CPC COOPERATIVE PATENT CLASSIFICATION

D TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D06 TREATMENT OF TEXTILES OR THE LIKE; LAUNDERING; FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D06M TREATMENT, NOT PROVIDED FOR ELSEWHERE IN CLASS D06, OF FIBRES, THREADS, YARNS, FABRICS, FEATHERS OR FIBROUS GOODS MADE FROM SUCH MATERIALS

NOTES

1. In each of the groups D06M 11/00 - D06M 15/00, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, a substance is classified in the last appropriate place.
2. In this subclass:
   a. within each one of main groups D06M 11/00 - 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 substance;
   b. treatment by mixtures of substances covered by two or more of main groups D06M 11/00 - D06M 15/00 is classified in each appropriate main group.
3. In this subclass, the treatment of textiles, not provided for elsewhere in class D06, is classified according to the following principles:
   a. treatment of textiles characterised by the treating agent in groups D06M 11/00 - D06M 16/00;
   b. treatment of textiles characterised by the process in group D06M 23/00.
4. Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the Periodic Table of chemical elements the CPC refers.

WARNING

{In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

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)**}**

7/005 . {made of asbestos}

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

10/001 . {Treatment with visible light, infrared or ultraviolet, X-rays}

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

10/005 . {Laser beam treatment}

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

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

10/02 . ultrasonic or sonic; Corona discharge

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

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})

10/06 . . Inorganic compounds or elements

10/08 . . Organic compounds

10/10 . . . Macromolecular compounds

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)

NOTES

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

D06M 11/00 (continued)

chloride and with sulfuric acid in two separate steps

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

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

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

11/09 . . with free halogens or interhalogen compounds

11/11 . . with halogen acids or salts thereof

11/13 . . . Ammonium halides or halides of elements of Groups 1 or 11 of the Periodic Table

11/155 . . . Halides of elements of Groups 2 or 12 of the Periodic Table

11/17 . . . Halides of elements of Groups 3 or 13 of the Periodic Table

11/20 . . . Halides of elements of Groups 4 or 14 of the Periodic Table, e.g. zirconyl chloride

11/22 . . . Halides of elements of Groups 5 or 15 of the Periodic Table

11/24 . . . Halides of elements of Groups 6 or 16 of the Periodic Table, e.g. chromyl chloride

11/26 . . . Halides of elements of Groups 7 of the Periodic Table (interhalogen compounds D06M 11/09)

11/28 . . . Halides of elements of Groups 8, 9, 10 or 18 of the Periodic Table

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

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)

11/34 . . with oxygen, ozone or ozonides

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

11/38 . . . Oxides or hydroxides of elements of Groups 1 or 11 of the Periodic Table

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

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

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

11/44 . . . Oxides or hydroxides of elements of Groups 2 or 12 of the Periodic Table; Zincates; Cadmates

11/45 . . . Oxides or hydroxides of elements of Groups 3 or 13 of the Periodic Table; Aluminates

11/46 . . . Oxides or hydroxides of elements of Groups 4 or 14 of the Periodic Table; Titanates; Zirconates; Stannates; Plumbates

11/47 . . . Oxides or hydroxides of elements of Groups 5 or 15 of the Periodic Table; Vanadates; Niobates; Tantalates; Arsenates; Antimonates; Bismuthates

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

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

11/49 . . . Oxides or hydroxides of elements of Groups 8, 9,10 or 18 of the Periodic Table; Ferrates; Cobaltates; Nickelates; Ruthenates; Osmates; Rhodates; Iridates; Palladates; Platinates

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

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

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

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

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

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

11/56 . . . Sulfates or thiosulfates other than of elements of Groups 3 or 13 of the Periodic Table

11/57 . . . Sulfates or thiosulfates of elements of Groups 3 or 13 of the Periodic Table, e.g. alums

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

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

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

11/61 . . . Liquid ammonia

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

11/63 . . with hydroxylamine or hydrazine

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

11/65 . . . Salts of oxyacids of nitrogen

11/66 . . with sulfamic acid or its salts

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)

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)

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

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

11/71 . . . Salts of phosphoric acids

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

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

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

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)

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)

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

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

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

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

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

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

11/83 . with metals; with metal-generating compounds, e.g. metal carbonyls; Reduction of metal compounds on textiles

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

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:

- "treatment" means, in the absence of an indication to the contrary, the treatment which leads to the end product, e.g. treatment with chloroacetic acid can mean treatment with chloroacetylchloride and saponification in two separate steps

13/005 . {Compositions containing perfumes; Compositions containing deodorants}

13/02 . with hydrocarbons

13/03 . . with unsaturated hydrocarbons, e.g. alkenes, or alkynes

13/07 . . . Aromatic hydrocarbons

13/08 . with halogenated hydrocarbons

13/085 . . {cycloaliphatic}

13/10 . with compounds containing oxygen

13/11 . . Compounds containing epoxy groups or precursors thereof

13/12 . . Aldehydes; Ketones

13/123 . . . Polyaldehydes; Polyketones

13/127 . . . Mono-aldehydes, e.g. formaldehyde; Monoketones

13/13 . . . Unsaturated aldehydes, e.g. acrolein; Unsaturated ketones; Ketenes {; Diketenes}

13/133 . . . Halogenated aldehydes; Halogenated ketones {; Halogenated ketenes}

13/137 . . Acetals, e.g. formals, or ketals

13/144 . . Alcohols; Metal alcoholates (D06M 13/11 takes precedence)

13/148 . . . Polyalcohols, e.g. glycerol {or glucose}

13/152 . . having a hydroxy group bound to a carbon atom of a six-membered aromatic ring

13/156 . . . containing halogen atoms

13/165 . . Ethers (D06M 13/11 takes precedence)

13/17 . . . Polyoxyalkyleneglycol ethers

13/175 . . . Unsaturated ethers, e.g. vinylethers

13/184 . . Carboxylic acids; Anhydrides, halides or salts thereof

13/1845 . . . {Aromatic mono- or polycarboxylic acids}

13/188 . . . Monocarboxylic acids; Anhydrides, halides or salts thereof {(D06M 13/1845 takes precedence)}

13/192 . . . Polycarboxylic acids; Anhydrides, halides or salts thereof {(D06M 13/1845 takes precedence)}

13/196 . . . Percarboxylic acids; Anhydrides, halides or salts thereof

13/203 . . . Unsaturated carboxylic acids; Anhydrides, halides or salts thereof

13/2035 . . . . {Aromatic acids}

13/207 . . . Substituted carboxylic acids, e.g. by hydroxy or keto groups; Anhydrides, halides or salts thereof

13/21 . . . . Halogenated carboxylic acids; Anhydrides, halides or salts thereof

13/213 . . . . . Perfluoroalkyl carboxylic acids; Anhydrides, halides or salts thereof

13/217 . . . . Polyoxyalkyleneglycol ethers with a terminal carboxyl group; Anhydrides, halides or salts thereof

13/224 . . Esters of carboxylic acids; Esters of carbonic acid

13/2243 . . . {Mono-, di-, or triglycerides}

13/2246 . . . {Esters of unsaturated carboxylic acids}

13/228 . . . Cyclic esters, e.g. lactones

13/232 . . . Organic carbonates

13/236 . . . containing halogen atoms

13/238 . . . Tannins, e.g. gallotannic acids

13/244 . with compounds containing sulfur or phosphorus

13/248 . . with compounds containing sulfur

13/252 . . . Mercaptans, thiophenols, sulfides or polysulfides, e.g. mercapto acetic acid; Sulfonium compounds

13/256 . . . Sulfonated compounds {esters thereof, e.g. sultones}

13/262 . . . Sulfated compounds {thiosulfates}

13/265 . . . containing halogen atoms

13/268 . . . Sulfones

13/272 . . . Unsaturated compounds containing sulfur atoms

13/275 . . . . Vinylthioethers

13/278 . . . . Vinylsulfonium compounds; Vinylsulfone or vinylsulfoxide compounds

13/282 . . with compounds containing phosphorus

13/285 . . . Phosphines; Phosphine oxides; Phosphine sulfides; Phosphinic or phosphinous acids or derivatives thereof

13/288 . . . Phosphonic or phosphonous acids or derivatives thereof

13/29 . . . . containing halogen atoms

13/292 . . . Mono-, di- or triesters of phosphoric or phosphorous acids; Salts thereof
13/295 . . . . containing polyglycol moieties; containing neopentyl moieties
13/298 . . . . containing halogen atoms
13/313 . . . Unsaturated compounds containing phosphorus atoms, e.g. vinylphosphonium compounds
13/322 . with compounds containing nitrogen
13/325 . . Amines
13/3255 . . . {Vinylamine; Allylamine}
13/328 . . . the amino group being bound to an acyclic or cycloaliphatic carbon atom
13/33 . . . . containing halogen atoms
13/332 . . . Di- or polyamines
13/335 . . . having an amino group bound to a carbon atom of a six-membered aromatic ring
13/338 . . . Organic hydrazines; Hydrazinium compounds
13/342 . . . Amino-carboxylic acids; Betaines; Aminosulfonic acids; Sulfo-betaines
13/345 . . Nitriles
13/348 . . . unsaturated, e.g. acrylonitrile
13/35 . . Heterocyclic compounds
13/352 . . . having five-membered heterocyclic rings
13/355 . . . having six-membered heterocyclic rings
13/358 . . . . Triazines
13/364 . . . . . Cyanuric acid; Isocyanuric acid; Derivatives thereof
13/368 . . Hydroxyalkylamines; Derivatives thereof, e.g. Kritchevsky bases
13/372 . . containing etherified or esterified hydroxy groups {; Polyethers of low molecular weight}
13/376 . . Oximes
13/382 . . Aminoaldehydes
13/385 . . containing epoxy groups
13/388 . . Amine oxides
13/392 . . Nitroso compounds; Nitro compounds
13/395 . . Isocyanates
13/398 . . . containing fluorine atoms
13/402 . . Amides {imides, sulfamic acids}
13/405 . . . Acylated polyalkylene polyamines
13/408 . . . Acylated amines containing fluorine atoms; Amides of perfluoro carboxylic acids
13/41 . . . Amides derived from unsaturated carboxylic acids, e.g. acrylamide
13/412 . . . . N-methylolacrylamides
13/415 . . . Amides of aromatic carboxylic acids; Acylated aromatic amines
13/418 . . . Cyclic amides, e.g. lactams; Amides of oxalic acid
13/419 . . . Amides having nitrogen atoms of amide groups substituted by hydroxyalkyl or by etherified or esterified hydroxyalkyl groups
13/422 . . . Hydrazides
13/425 . . . Carbamic or thiocarbamic acids or derivatives thereof, e.g. urethanes (unsubstituted carbamic acid D06M 11/67)
13/428 . . . . containing fluorine atoms
13/432 . . . Urea, thiourea or derivatives thereof, e.g. biurets; Urea-inclusion compounds; Dicyanamides; {Carbodiimides;} Guanidines, e.g. dicyandiamides
13/435 . . . Semicarbazides
13/438 . . . Sulfonamides {; Sulfamic acids}
13/44 . . containing nitrogen and phosphorus
13/447 . . . Phosphonates or phosphinates containing nitrogen atoms
13/453 . . . Phosphates or phosphites containing nitrogen atoms
13/46 . . Compounds containing quaternary nitrogen atoms (hydrazinium compounds D06M 13/338; betaines, sulfo-betaines D06M 13/342)
13/461 . . . {Quaternised amin-amides from polyamines or heterocyclic compounds or polyamino-acids}
13/463 . . . derived from monoamines
13/467 . . . derived from polyamines
13/47 . . . derived from heterocyclic compounds
13/473 . . . . having five-membered heterocyclic rings
13/477 . . . . having six-membered heterocyclic rings
13/48 . . containing the ethylene imine ring
13/487 . . Aziridinylphosphines; Aziridinylphosphine-oxides or sulfides; Carbonylaziridinyl or carbonylbisaziridinyl compounds; Sulfonylaziridinyl or sulfonylbisaziridinyl compounds
13/493 . . . perfluorinated
13/50 . with organometallic compounds; with organic compounds containing boron, silicon, selenium or tellurium atoms
13/503 . . without bond between a carbon atom and a metal or a boron, silicon, selenium or tellurium atom
13/507 . . . Organic silicon compounds without carbon-silicon bond
13/51 . . Compounds with at least one carbon-metal or carbon-boron, carbon-silicon, carbon-selenium, or carbon-tellurium bond
13/513 . . . with at least one carbon-silicon bond
13/5135 . . . . {Unsaturated compounds containing silicon atoms}
13/517 . . . . containing silicon-halogen bonds
13/52 . combined with mechanical treatment
13/522 . . {Fulling}
13/525 . . Embossing; Calendering; Pressing
13/53 . . Cooling; Steaming or heating, e.g. in fluidised beds; with molten metals
13/535 . . Suction; Vacuum treatment; Degassing; Blowing

14/00 **Graft polymerisation of monomers containing carbon-to-carbon unsaturated bonds on to fibres, threads, yarns, fabrics, or fibrous goods made from such materials** (on to unshaped polymers C08F 251/00 - C08F 292/00)
14/02 . on to materials of natural origin (D06M 14/18 takes precedence)
14/04 . . of vegetal origin, e.g. cellulose or derivatives thereof
14/06 . . of animal origin, e.g. wool or silk
14/08 . on to materials of synthetic origin (D06M 14/18 takes precedence)
14/10 . . of macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
14/12 . . of macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
14/14 . . . Polyesters
14/16 . . . Polyamides
14/18 . using wave energy or particle radiation

14/20 . . on to materials of natural origin
14/22 . . . of vegetal origin, e.g. cellulose or derivatives thereof
14/24 . . . of animal origin, e.g. wool or silk
14/26 . . on to materials of synthetic origin
14/28 . . . of macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
14/30 . . . of macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
14/32 . . . . Polyesters
14/34 . . . . Polyamides
14/36 . on to carbon fibres

15/00 Treating fibres, threads, yarns, fabrics, or fibrous goods made from such materials, with macromolecular compounds; Such treatment combined with mechanical treatment (D06M 10/00, D06M 14/00 take precedence; {treatment with inorganic polyphosphates D06M 11/72})

NOTE

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.
  a. treatment with polyvinylalcohol can mean treatment with polyvinylacetate and subsequent saponification in a separate step
  b. treatment with aminoplast can mean the delayed cure process or the treatment with precondensation products, or with e.g. urea and with formaldehyde in two separate steps

15/01 . with natural macromolecular compounds or derivatives thereof (with natural rubber or derivatives thereof D06M 15/693)
15/03 . . Polysaccharides or derivatives thereof
15/035 . . . {Polymeric alcohol xanthates}
15/05 . . . Cellulose or derivatives thereof
15/055 . . . . with the residual liquors derived of the sulfatic process for the preparation of cellulose
15/07 . . . . Cellulose esters
15/09 . . . . Cellulose ethers
15/11 . . . Starch or derivatives thereof
15/13 . . . Alginic acid or derivatives thereof
15/15 . . Proteins or derivatives thereof
15/155 . . . {Treatment in the presence of salts derived from amphoteric metal hydroxides}
15/17 . . Natural resins, resinous alcohols, resinous acids, or derivatives thereof
15/19 . with synthetic macromolecular compounds (with synthetic rubber D06M 15/693)
15/195 . . {sulfated or sulfonated}
15/21 . . Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
15/227 . . . of hydrocarbons, or reaction products thereof, e.g. afterhalogenated or sulfochlorinated
15/233 . . . . aromatic, e.g. styrene
15/244 . . . of halogenated hydrocarbons (afterhalogenated hydrocarbons D06M 15/227)
15/248 . . . . containing chlorine
15/252 . . . . containing bromine
15/256 . . . . containing fluorine
15/263 . . . of unsaturated carboxylic acids; Salts or esters thereof
15/267 . . . . of unsaturated carboxylic esters having amino or quaternary ammonium groups
15/27 . . . . of alkylpolyalkylene glycol esters of unsaturated carboxylic acids
15/273 . . . . of unsaturated carboxylic esters having epoxy groups
15/2735 . . . . . {of unsaturated carboxylic esters having mercapto groups}
15/277 . . . . containing fluorine
15/285 . . . of unsaturated carboxylic acid amides or imides
15/29 . . . . containing a N-methylol group or an etherified N-methylol group; containing a N-aminomethylene group; containing a N-sulfidomethylene group
15/295 . . . . containing fluorine
15/31 . . . of unsaturated nitriles
15/327 . . . of unsaturated alcohols or esters thereof
15/33 . . . . Esters containing fluorine
15/333 . . . . of vinyl acetate; Polyvinylalcohol
15/3335 . . . . . {fluorinated}
15/347 . . . of unsaturated ethers, acetals, hemiacetals, ketones or aldehydes
15/353 . . . . containing fluorine
15/356 . . . of other unsaturated compounds containing nitrogen, sulfur, silicon or phosphorus atoms
15/3562 . . . . {containing nitrogen}
15/3564 . . . . {containing phosphorus}
15/3566 . . . . {containing sulfur}
15/3568 . . . . {containing silicon}
15/37 . . Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
15/39 . . . Aldehyde resins; Ketone resins; Polyacetals
15/41 . . . . Phenol-aldehyde or phenol-ketone resins
15/412 . . . . . {sulfonated}
15/415 . . . . . modified by compounds containing phosphorus
15/423 . . . . Amino-aldehyde resins
15/427 . . . . . modified by alkoxylated compounds or alkylene oxides
15/429 . . . . . modified by compounds containing sulfur
15/43 . . . . . modified by phosphorus compounds
15/431 . . . . . by phosphines or phosphine oxides; by oxides or salts of the phosphonium radical
15/432 . . . . . by phosphonic acids or derivatives thereof
15/433 . . . . . by phosphoric acids
15/437 . . . . . containing fluorine
15/45 . . . . . Use of special catalysts
15/507 . . . Polyesters
15/5075 . . . . {containing sulfonic groups}
15/51 . . . . Unsaturated polymerisable polyesters
15/513 . . . . Polycarbonates
15/53 . . . Polyethers (polyacetals D06M 15/39)
15/55 . . . Epoxy resins
15/555 . . . . modified by compounds containing phosphorus

15/564 . . . Polyureas, polyurethanes or other polymers having ureide or urethane links; Precondensation products forming them
15/568 . . . . Reaction products of isocyanates with polyethers
15/572 . . . . Reaction products of isocyanates with polyesters or polyesteramides
15/576 . . . . containing fluorine
15/579 . . . . modified by compounds containing phosphorus
15/59 . . . Polyamides; Polyimides
15/592 . . . . made from polymerised unsaturated fatty acids and polyamines
15/595 . . . . Derivatives obtained by substitution of a hydrogen atom of the carboxamide radical
15/598 . . . . modified by compounds containing phosphorus
15/61 . . . Polyamines {polyimines}
15/63 . . . containing sulfur in the main chain, e.g. polysulfones
15/643 . . . containing silicon in the main chain
15/6433 . . . . {containing carboxylic groups}
15/6436 . . . . {containing amino groups}
15/647 . . . . containing polyether sequences
15/65 . . . . containing epoxy groups
15/651 . . . . . {comprising carboxylic groups}
15/652 . . . . . {comprising amino groups}
15/653 . . . . modified by isocyanate compounds
15/657 . . . . containing fluorine
15/667 . . . containing phosphorus in the main chain {(inorganic polyphosphates D06M 11/72)}
15/673 . . . . containing phosphorus and nitrogen in the main chain
15/687 . . . containing atoms other than phosphorus, silicon, sulfur, nitrogen, oxygen or carbon in the main chain
15/693 . with natural or synthetic rubber, or derivatives thereof
15/70 . combined with mechanical treatment
15/705 . . Embossing; Calendering; Pressing
15/71 . . Cooling; Steaming or heating, e.g. in fluidised beds; with molten metals
15/715 . . Suction; Vacuum treatment; Degassing; Blowing

16/00 Biochemical treatment of fibres, threads, yarns, fabrics, or fibrous goods made from such materials, e.g. enzymatic
16/003 . {with enzymes or microorganisms}
16/006 . {with wool-protecting agents; with anti-moth agents}

17/00 Producing multi-layer textile fabrics
17/02 . by applying cellulose derivatives as adhesives
17/04 . by applying synthetic resins as adhesives
17/06 . . Polymers of vinyl compounds
17/08 . . Polyamides {polyimides}
17/10 . . Polyurethanes {polyurea}

19/00 Treatment of feathers

23/00 Treatment of fibres, threads, yarns, fabrics or fibrous goods made from such materials, characterised by the process
23/005 . {Applying monomolecular films on textile products like fibres, threads or fabrics}
23/02 . Processes in which the treating agent is releasably affixed or incorporated into a dispensing means
23/04 . Processes in which the treating agent is applied in the form of a foam
23/06 . Processes in which the treating agent is dispersed in a gas, e.g. aerosols (aerosol compositions C09K 3/30)
23/08 . Processes in which the treating agent is applied in powder or granular form (adhesives for multi-layer textile fabrics D06M 17/00)
23/10 . Processes in which the treating agent is dissolved or dispersed in organic solvents; Processes for the recovery of organic solvents thereof
23/105 . . {Processes in which the solvent is in a supercritical state}
23/12 . Processes in which the treating agent is incorporated in microcapsules (making microcapsules B01J 13/02)
23/14 . Processes for the fixation or treatment of textile materials in three-dimensional forms
23/16 . Processes for the non-uniform application of treating agents, e.g. one-sided treatment; Differential treatment
23/18 . . for the chemical treatment of borders of fabrics or knittings; for the thermal or chemical fixation of cuttings, seams or fibre ends

2101/00 Chemical constitution of the fibres, threads, yarns, fabrics or fibrous goods made from such materials, to be treated

NOTES

1. This subclass constitutes an internal scheme for indexing only.
2. The indexing codes relate to the fibres to be treated and are to be used with the groups D06M 11/00, D06M 13/00, D06M 15/00, D06M 16/00 and D06M 23/00

Examples:

- the swelling of cellulose with alkaline hydroxides is classified and indexed in D06M 11/38 // D06M 2101/06
- the treatment of cellulose with amines is classified and indexed in D06M 13/325 // D06M 2101/06
- the treatment of polyester fibres with polyester is classified and indexed in D06M 15/507 // D06M 2101/32
- the treatment of wool with pepsin is classified and indexed in D06M 16/00 // D06M 2101/12
- the treatment of cellulose with silicon tetrachloride in the form of a foam is classified and indexed in D06M 11/78, D06M 23/04 // D06M 2101/06.

2101/005 . {Asbestos fibres}

NOTE

Blends of fibres are indexed according to each constituent fibre

2101/02 . Natural fibres, other than mineral fibres
2101/04 . . Vegetal fibres
2101/06 . . . cellulosic
2101/08 . . . . Esters or ethers of cellulose
2101/10 . . Animal fibres

2101/12 . . . Keratin fibres or silk
2101/14 . . . Collagen fibres
2101/16 . Synthetic fibres, other than mineral fibres
2101/18 . . Synthetic fibres consisting of macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
2101/20 . . . Polyalkenes, polymers or copolymers of compounds with alkenyl groups bonded to aromatic groups
2101/22 . . . Polymers or copolymers of halogenated mono-olefins
2101/24 . . . Polymers or copolymers of alkenylalcohols or esters thereof; Polymers or copolymers of alkenylethers, acetals or ketones
2101/26 . . . Polymers or copolymers of unsaturated carboxylic acids or derivatives thereof
2101/28 . . . . Acrylonitrile; Methacrylonitrile
2101/30 . . Synthetic polymers consisting of macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
2101/32 . . . Polyesters
2101/34 . . . Polyamides
2101/36 . . . . Aromatic polyamides
2101/38 . . . Polyurethanes
2101/40 . Fibres of carbon

2200/00 Functionality of the treatment composition and/or properties imparted to the textile material

2200/01 . Stain or soil resistance
2200/05 . Lotus effect
2200/10 . Repellency against liquids
2200/11 . . Oleophobic properties
2200/12 . . Hydrophobic properties
2200/20 . Treatment influencing the crease behaviour, the wrinkle resistance, the crease recovery or the ironing ease
2200/25 . Resistance to light or sun, i.e. protection of the textile itself as well as UV shielding materials or treatment compositions therefor; Anti-yellowing treatments
2200/30 . Flame or heat resistance, fire retardancy properties
2200/35 . Abrasion, pilling or fibrillation resistance
2200/40 . Reduced friction resistance, lubricant properties; Sizing compositions
2200/45 . Shrinking resistance, anti-felting properties
2200/50 . Modified hand or grip properties; Softening compositions

2400/00 Specific information on the treatment or the process itself not provided in D06M 23/00-D06M 23/18

2400/01 . Creating covalent bondings between the treating agent and the fibre
2400/02 . Treating compositions in the form of solgel or aerogel