

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)}	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})
7/005	. {made of asbestos}	10/06	. . Inorganic compounds or elements
		10/08	. . Organic compounds
		10/10	. . . Macromolecular compounds
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	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)
10/001	. {Treatment with visible light, infrared or ultraviolet, X-rays}		<u>NOTES</u>
10/003	. {Treatment with radio-waves or microwaves}		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.
10/005	. {Laser beam treatment}		2. In this group, the following term is used with the meaning indicated:
10/006	. {Ultra-high-frequency heating}		. "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
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}		

D06M

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. vinyl ethers
- 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	15/248	. . . . containing chlorine
14/22	. . . of vegetal origin, e.g. cellulose or derivatives thereof	15/252	. . . . containing bromine
14/24	. . . of animal origin, e.g. wool or silk	15/256	. . . . containing fluorine
14/26	. . . on to materials of synthetic origin	15/263	. . . of unsaturated carboxylic acids; Salts or esters thereof
14/28	. . . of macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds	15/267	. . . . of unsaturated carboxylic esters having amino or quaternary ammonium groups
14/30	. . . of macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	15/27	. . . . of alkylpolyalkylene glycol esters of unsaturated carboxylic acids
14/32	. . . . Polyesters	15/273	. . . . of unsaturated carboxylic esters having epoxy groups
14/34	. . . . Polyamides	15/2735	. . . . . {of unsaturated carboxylic esters having mercapto groups}
14/36	. . . on to carbon fibres	15/277	. . . . containing fluorine
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})	15/285	. . . of unsaturated carboxylic acid amides or imides
	NOTE	15/29	. . . . containing a N-methylol group or an etherified N-methylol group; containing a N-aminomethylene group; containing a N-sulfidomethylene group
	In this group, the following term is used with the meaning indicated:	15/295	. . . . containing fluorine
	• "treatment" means, in the absence of an indication to the contrary, the treatment which leads to the end product, e.g.	15/31	. . . of unsaturated nitriles
	a. treatment with polyvinylalcohol can mean treatment with polyvinylacetate and subsequent saponification in a separate step	15/327	. . . of unsaturated alcohols or esters thereof
	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	15/33	. . . . 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}
15/01	. . . with natural macromolecular compounds or derivatives thereof (with natural rubber or derivatives thereof D06M 15/693)	15/37	. . . Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
15/03	. . . Polysaccharides or derivatives thereof	15/39	. . . Aldehyde resins; Ketone resins; Polyacetals
15/035	. . . . {Polymeric alcohol xanthates}	15/41	. . . . Phenol-aldehyde or phenol-ketone resins
15/05	. . . Cellulose or derivatives thereof	15/412	. . . . . {sulfonated}
15/055	. . . . with the residual liquors derived of the sulfatic process for the preparation of cellulose	15/415	. . . . . modified by compounds containing phosphorus
15/07	. . . . Cellulose esters	15/423	. . . . . Amino-aldehyde resins
15/09	. . . . Cellulose ethers	15/427	. . . . . modified by alkoxylated compounds or alkylene oxides
15/11	. . . Starch or derivatives thereof	15/429	. . . . . modified by compounds containing sulfur
15/13	. . . Alginate acid or derivatives thereof	15/43	. . . . . modified by phosphorus compounds
15/15	. . . Proteins or derivatives thereof	15/431	. . . . . by phosphines or phosphine oxides; by oxides or salts of the phosphonium radical
15/155	. . . . {Treatment in the presence of salts derived from amphoteric metal hydroxides}	15/432	. . . . . by phosphonic acids or derivatives thereof
15/17	. . . Natural resins, resinous alcohols, resinous acids, or derivatives thereof	15/433	. . . . . by phosphoric acids
15/19	. . . with synthetic macromolecular compounds (with synthetic rubber D06M 15/693)	15/437	. . . . . containing fluorine
15/195	. . . {sulfated or sulfonated}	15/45	. . . . . Use of special catalysts
15/21	. . . Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds	15/507	. . . Polyesters
15/227	. . . of hydrocarbons, or reaction products thereof, e.g. afterhalogenated or sulfochlorinated	15/5075	. . . . . {containing sulfonic groups}
15/233	. . . . aromatic, e.g. styrene	15/51	. . . . Unsaturated polymerisable polyesters
15/244	. . . of halogenated hydrocarbons (afterhalogenated hydrocarbons D06M 15/227)	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	23/02	. Processes in which the treating agent is releasably affixed or incorporated into a dispensing means
15/568	. . . . Reaction products of isocyanates with polyethers	23/04	. Processes in which the treating agent is applied in the form of a foam
15/572	. . . . Reaction products of isocyanates with polyesters or polyesteramides	23/06	. Processes in which the treating agent is dispersed in a gas, e.g. aerosols (aerosol compositions C09K 3/30)
15/576	. . . . containing fluorine	23/08	. Processes in which the treating agent is applied in powder or granular form (adhesives for multi-layer textile fabrics D06M 17/00)
15/579	. . . . modified by compounds containing phosphorus	23/10	. Processes in which the treating agent is dissolved or dispersed in organic solvents; Processes for the recovery of organic solvents thereof
15/59	. . . . Polyamides; Polyimides	23/105	. . {Processes in which the solvent is in a supercritical state}
15/592	. . . . made from polymerised unsaturated fatty acids and polyamines	23/12	. Processes in which the treating agent is incorporated in microcapsules (making microcapsules B01J 13/02)
15/595	. . . . Derivatives obtained by substitution of a hydrogen atom of the carboxamide radical	23/14	. Processes for the fixation or treatment of textile materials in three-dimensional forms
15/598	. . . . modified by compounds containing phosphorus	23/16	. Processes for the non-uniform application of treating agents, e.g. one-sided treatment; Differential treatment
15/61	. . . . Polyamines {polyimines}	23/18	. . for the chemical treatment of borders of fabrics or knittings; for the thermal or chemical fixation of cuttings, seams or fibre ends
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}		
		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
			<u>Examples:</u>
			• 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

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- 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