

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

D06N WALL, FLOOR OR LIKE COVERING MATERIALS, e.g. LINOLEUM, OILCLOTH, ARTIFICIAL LEATHER, ROOFING FELT, CONSISTING OF A FIBROUS WEB COATED WITH A LAYER OF MACROMOLECULAR MATERIAL; FLEXIBLE SHEET MATERIAL NOT OTHERWISE PROVIDED FOR ([laminates in general B32B](#); [coated webs which retain the character of paper or cardboard D21](#))

NOTE

Layered products classified in this subclass are also classified in subclass [B32B](#).

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

D06N 7/02	covered by	D06M , D06N
D06N 7/04	covered by	D06M , D06N
D06N 7/06	covered by	D06M , D06N

1/00	Linoleum {, e.g. linoxyn, polymerised or oxidised resin}	3/0038	. . . {Polyolefin fibres (for elastomeric fibres D06N 3/0025)}
3/00	Artificial leather, oilcloth or {other} material obtained by covering fibrous webs with macromolecular material, e.g. resins, rubber or derivatives thereof	3/004	. . {using flocked webs or pile fabrics upon which a resin is applied; Teasing, raising web before resin application}
3/0002	. {characterised by the substrate}	3/0043	. {characterised by their foraminous structure; Characteristics of the foamed layer or of cellular layers (foraminous structure obtained by stretching D06N 3/0029)}
3/0004	. . {using ultra-fine two-component fibres, e.g. island/sea, or ultra-fine one component fibres (< 1 denier)}	3/0045	. . {obtained by applying a ready-made foam layer; obtained by compressing, crinkling or crushing a foam layer, e.g. Kaschierverfahren für Schaumschicht}
3/0006	. . {using woven fabrics}	3/0047	. . {obtained by incorporating air, i.e. froth}
3/0009	. . {using knitted fabrics}	3/005	. . {obtained by blowing or swelling agent}
3/0011	. . {using non-woven fabrics}	3/0052	. . {obtained by leaching out of a compound, e.g. water soluble salts, fibres or fillers; obtained by freezing or sublimation; obtained by eliminating drops of sublimable fluid}
3/0013	. . {using multilayer webs}	3/0054	. . {obtained by mechanical perforations}
3/0015	. . {using fibres of specified chemical or physical nature, e.g. natural silk}	3/0056	. {characterised by the compounding ingredients of the macro-molecular coating (D06N 3/005 takes precedence)}
3/0018	. . . {Collagen fibres or collagen on fibres}	3/0059	. . {Organic ingredients with special effects, e.g. oil- or water-repellent, antimicrobial, flame-resistant, magnetic, bactericidal, odour-influencing agents; perfumes (D06N 3/0065 takes precedence)}
3/002	. . . {Asbestos fibres}	3/0061	. . {Organic fillers or organic fibrous fillers, e.g. ground leather waste, wood bark, cork powder, vegetable flour; Other organic compounding ingredients; Post-treatment with organic compounds}
3/0022	. . . {Glass fibres}	3/0063	. . {Inorganic compounding ingredients, e.g. metals, carbon fibres, Na ₂ CO ₃ , metal layers; Post-treatment with inorganic compounds}
3/0025	. . . {Rubber threads; Elastomeric fibres; Stretchable, bulked or crimped fibres; Retractable, crimpable fibres; Shrinking or stretching of fibres during manufacture; Obliquely threaded fabrics}		
3/0027 {Rubber or elastomeric fibres}		
3/0029 {Stretchable fibres; Stretching of fibres during manufacture}		
3/0031 {Retractable fibres; Shrinking of fibres during manufacture}		
3/0034	. . . {Polyamide fibres (for elastomeric fibres D06N 3/0025)}		
3/0036	. . . {Polyester fibres (for elastomeric fibres D06N 3/0025)}		

- 3/0065 . . {Organic pigments, e.g. dyes, brighteners}
- 3/0068 . . {Polymeric granules, particles or powder, e.g. core-shell particles, microcapsules}
- 3/007 . . {characterised by mechanical or physical treatments ([D06N 3/0029](#), [D06N 3/0031](#) take precedence)}
- 3/0072 . . {Slicing; Manufacturing two webs at one time}
- 3/0075 . . {Napping, teasing, raising or abrading of the resin coating (raising, napping of the web before coating [D06N 3/004](#))}
- 3/0077 . . {Embossing; Pressing of the surface; Tumbling and crumbling; Cracking; Cooling; Heating, e.g. mirror finish}
- 3/0079 . . {Suction, vacuum treatment}
- 3/0081 . . {by wave energy or particle radiation ([D06N 3/08](#) takes precedence)}
- 3/0084 . . {by electrical processes, e.g. potentials, corona discharge, electrophoresis, electrolytic}
- 3/0086 . . {characterised by the application technique}
- 3/0088 . . {by directly applying the resin ([D06N 3/0045](#) takes precedence)}
- 3/009 . . . {by spraying components on the web ([powder D06N 3/0093](#))}
- 3/0093 . . . {by applying resin powders; by sintering}
- 3/0095 . . . {by inversion technique; by transfer processes}
- 3/0097 . . . {Release surface, e.g. separation sheets; Silicone papers}
- 3/02 . . with cellulose derivatives
- 3/04 . . with macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
- 3/042 . . {Acrylic polymers ([D06N 3/045](#) takes precedence)}
- 3/045 . . {with polyolefin or polystyrene (co-)polymers}
- 3/047 . . {with fluoropolymers}
- 3/06 . . with polyvinylchloride or its copolymerisation products {(surface treatment or foaming for floor coverings [D06N 7/0007](#))}
- 3/065 . . . {PVC together with other resins except polyurethanes (with polyurethanes [D06N 3/144](#))}
- 3/08 . . . with a finishing layer consisting of polyacrylates, polyamides or polyurethanes {or polyester}
- 3/10 . . with styrene-butadiene copolymerisation products {or other synthetic rubbers or elastomers except polyurethanes}
- 3/103 . . . {Thermosetting synthetic rubbers}
- 3/106 . . . {Elastomers}
- 3/12 . . with macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds {, e.g. gelatine proteins}
- 3/121 . . {with polyesters, polycarbonates, alkyds ([oils D06N 3/16](#))}
- 3/123 . . . {with polyesters}
- 3/125 . . . {with polyamides}
- 3/126 . . . {Poly-amino acids, e.g. polyglutamates}
- 3/128 . . . {with silicon polymers}
- 3/14 . . with polyurethanes
- 3/141 . . . {mixture of two or more polyurethanes in the same layer}
- 3/142 . . . {mixture of polyurethanes with other resins in the same layer}
- 3/143 {with polyurethanes and other polycondensation or polyaddition products, e.g. aminoplast}
- 3/144 {with polyurethane and polymerisation products, e.g. acrylics, PVC}
- 3/145 . . . {two or more layers of polyurethanes}
- 3/146 . . . {characterised by the macromolecular diols used}
- 3/147 . . . {characterised by the isocyanates used}
- 3/148 {(cyclo)aliphatic polyisocyanates}
- 3/16 . . with oil varnishes {, i.e. drying oil varnishes, preferably linseed-oil-based; factice (sulfurised oils), Turkish birdlime, resinates reacted with drying oils; naphthenic metal salts}
- 3/18 . . with two layers of different macromolecular materials ([D06N 3/08](#) takes precedence); {(with two layers of the same kind of macromolecular material [D06N 2213/03](#))}
- 3/183 . . . {the layers are one next to the other}
- 3/186 . . . {one of the layers is on one surface of the fibrous web and the other layer is on the other surface of the fibrous web}
- 5/00 {Roofing materials comprising a fibrous web coated with bitumen or another polymer, e.g. pitch (compositions of bituminous materials [C08L 95/00](#), roof covering [E04D 5/00](#), roofing underlays [E04D 12/002](#))}**
- 5/003 . . {coated with bitumen}
- 5/006 . . {characterised by the means to apply it to a support or to another roofing membrane, e.g. self-adhesive layer or strip}
- 7/00 Flexible sheet materials not otherwise provided for, e.g. textile threads, filaments, yarns or tow, glued on macromolecular material {, e.g. fibrous top layer with resin backing, plastic naps or dots on fabrics}**
- 7/0002 . . {Wallpaper or wall covering on textile basis}
- WARNING**
groups [D06N 7/0002](#), [D06N 7/0092](#)-[D06N 7/0097](#) are not complete, pending reorganisation. See also [D06N 7/00](#)
- 7/0005 . . {Floor covering on textile basis comprising a fibrous substrate being coated with at least one layer of a polymer on the top surface}
- 7/0007 . . . {characterised by their relief structure}
- 7/001 {obtained by mechanical embossing}
- 7/0013 {obtained by chemical embossing (chemisches Prägen)}
- 7/0015 {use of inhibitor for the blowing agent or inhibitor for the kicker, e.g. trimellitic anhydride, triazole}
- 7/0018 {use of kicker for the blowing agent, e.g. Beschleunigungsverfahren}
- 7/0021 {use of a swelling agent}
- 7/0023 {obtained by physical means, e.g. differential heating or differential irradiation; masking certain areas during treating}
- 7/0026 {obtained by moulding, e.g. moulding table (tapis moule)}
- 7/0028 . . . {characterised by colour effects, e.g. craquelé, reducing gloss ([terrazzo by sintering D06N 7/0057](#))}

- 7/0031 . . . {mixture of two or more dyes, pigments, brighteners in the same layer}
- 7/0034 . . . {two or more different colour layers}
- 7/0036 . . {characterised by their backing, e.g. secondary backing, back-sizing}
- 7/0039 . . {characterised by the physical or chemical aspects of the layers}
- 7/0042 . . . {Conductive or insulating layers; Antistatic layers; Flame-proof layers}
- 7/0044 . . . {Sealing or barrier layers, e.g. against solvents, asphalt, plasticisers}
- 7/0047 . . . {Special extra layers under the surface coating, e.g. wire threads}
- 7/0049 {Fibrous layer(s); Fibre reinforcement; Fibrous fillers}
- 7/0052 . . . {Compounding ingredients, e.g. rigid elements (compounding ingredients of the macromolecular coating [D06N 3/0056](#))}
- 7/0055 {Particulate material such as cork, rubber particles, reclaimed resin particles, magnetic particles, metal particles, glass beads}
- 7/0057 . . . {Layers obtained by sintering or glueing the granules together}
- 7/006 . . {characterised by the textile substrate as base web (for intermediate fibrous webs [D06N 7/0049](#))}
- 7/0063 . {Floor covering on textile basis comprising a fibrous top layer being coated at the back with at least one polymer layer, e.g. carpets, rugs, synthetic turf}
- WARNING**
- Groups [D06N 7/0063-D06N 7/0084](#) are not complete, pending reorganisation. See also [D06N 7/0036](#)
- 7/0065 . . {characterised by the pile}
- WARNING**
- Groups [D06N 7/0065](#), [D06N 7/0068](#) are not complete, pending reorganisation. See also [D06N 7/006](#)
- 7/0068 . . {characterised by the primary backing or the fibrous top layer}
- 7/0071 . . {characterised by their backing, e.g. pre-coat, back coating, secondary backing, cushion backing}
- 7/0073 . . . {the back coating or pre-coat being applied as an aqueous dispersion or latex}
- 7/0076 . . . {the back coating or pre-coat being a thermoplastic material applied by, e.g. extrusion coating, powder coating or laminating a thermoplastic film}
- 7/0078 . . . {the back coating or pre-coat being applied as a hot melt}
- 7/0081 . . . {with at least one extra fibrous layer at the backing, e.g. stabilizing fibrous layer, fibrous secondary backing}
- 7/0084 . . . {with at least one layer obtained by sintering or bonding granules together}
- 7/0086 . . . {characterised by the cushion backing, e.g. foamed polyurethane}
- 7/0089 . . {Underlays}
- 7/0092 . {Non-continuous polymer coating on the fibrous substrate, e.g. plastic dots on fabrics}
- 7/0094 . {Fibrous material being coated on one surface with at least one layer of an inorganic material and at least one layer of a macromolecular material}
- 7/0097 . {Web coated with fibres, e.g. flocked}
- 2201/00 Chemical constitution of the fibres, threads or yarns**
- 2201/02 . Synthetic macromolecular fibres
- 2201/0209 . . Elastomeric, elastic fibres, e.g. spandex, lycra
- 2201/0218 . . Vinyl resin fibres
- 2201/0227 . . . Aromatic vinyl resin, e.g. styrenic (co)polymers
- 2201/0236 . . . Vinyl halide, e.g. PVC, PVDC, PVF, PVDF
- 2201/0245 . . Acrylic resin fibres
- 2201/0254 . . Polyolefin fibres
- 2201/0263 . . Polyamide fibres
- 2201/0272 . . . Aromatic polyamide fibres
- 2201/0281 . . Polyurethane fibres
- 2201/029 . . Fluoropolymer fibres
- 2201/04 . Vegetal fibres
- 2201/042 . . Cellulose fibres, e.g. cotton
- 2201/045 . . . Lignocellulosic fibres, e.g. jute, sisal, hemp, flax, bamboo
- 2201/047 . . . Wood fibres
- 2201/06 . Animal fibres, e.g. hair, wool, silk
- 2201/08 . Inorganic fibres
- 2201/082 . . Glass fibres
- 2201/085 . . Metal fibres
- 2201/087 . . Carbon fibres
- 2201/10 . Conjugate fibres, e.g. core-sheath, side-by-side
- 2201/12 . Fibres being in the form of a tape, strip or ribbon
- <NO TITLE>**
- 2203/00 Macromolecular materials of the coating layers**
- 2203/02 . Natural macromolecular compounds or derivatives thereof
- 2203/022 . . Natural rubber
- 2203/024 . . Polysaccharides or derivatives thereof
- 2203/026 . . . Cellulose or derivatives thereof
- 2203/028 . . . Starch or derivatives thereof
- 2203/04 . Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
- 2203/041 . . Polyacrylic
- 2203/042 . . Polyolefin (co)polymers
- 2203/044 . . Fluoropolymers
- 2203/045 . . Vinyl (co)polymers
- 2203/047 . . . Aromatic vinyl (co)polymers, e.g. styrene
- 2203/048 . . . Polyvinylchloride (co)polymers
- 2203/06 . Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
- 2203/061 . . Polyesters
- 2203/063 . . Polycarbonates
- 2203/065 . . Polyamides
- 2203/066 . . Silicon polymers
- 2203/068 . . Polyurethanes
- 2203/08 . Bituminous material, e.g. asphalt, tar, bitumen
- 2205/00 Condition, form or state of the materials**
- 2205/02 . Dispersion
- 2205/023 . . Emulsion, aqueous dispersion, latex
- 2205/026 . . Plastisol

- 2205/04 . Foam
- 2205/045 . . Froth
- 2205/06 . Melt
- 2205/08 . Microballoons, microcapsules
- 2205/10 . Particulate form, e.g. powder, granule
- 2205/103 . . Nanoparticles
- 2205/106 . . Scrap or recycled particles
- 2205/12 . Platelets, flakes
- 2205/14 . Fibrous additives or fillers
- 2205/16 . Solution
- 2205/18 . Scraps or recycled materials ([D06N 2205/106 takes precedence](#))

- 2205/20 . Cured materials, e.g. vulcanised, cross-linked
- 2205/22 . Partially cured
- 2205/24 . Coagulated materials
- 2205/243 . . by heating, steam
- 2205/246 . . by extracting the solvent

- 2207/00 Treatments by energy or chemical effects**
- 2207/02 . using vibration
- 2207/04 . using steam ([D06N 2205/243 takes precedence](#))
- 2207/06 . using liquids, e.g. water
- 2207/08 . using gas
- 2207/10 . using flames
- 2207/12 . by wave energy or particle radiation
- 2207/123 . . using electromagnetic radiation, e.g. IR, UV, actinic light, laser, X-ray, gamma-ray, microwave, radio frequency
- 2207/126 . . using particle radiation, e.g. ion, electron, neutron
- 2207/14 . Corona, ionisation, electrical discharge

- 2209/00 Properties of the materials**
- 2209/02 . having acoustical properties
- 2209/025 . . Insulating, sound absorber
- 2209/04 . having electrical or magnetic properties
- 2209/041 . . Conductive
- 2209/043 . . Insulating
- 2209/045 . . Magnetic, paramagnetic
- 2209/046 . . Anti-static
- 2209/048 . . Electromagnetic interference shielding
- 2209/06 . having thermal properties
- 2209/062 . . Conductive
- 2209/065 . . Insulating
- 2209/067 . . Flame resistant, fire resistant
- 2209/08 . having optical properties
- 2209/0807 . . Coloured
- 2209/0815 . . . on the layer surface, e.g. ink
- 2209/0823 . . . within the layer by addition of a colorant, e.g. pigments, dyes
- 2209/083 . . . Multi-coloured
- 2209/0838 . . Bright, glossy, shiny surface
- 2209/0846 . . Matt, dull surface
- 2209/0853 . . Opaque
- 2209/0861 . . Transparent
- 2209/0869 . . Translucent
- 2209/0876 . . Reflective
- 2209/0884 . . Refractive
- 2209/0892 . . Luminescent, fluorescent, phosphorescent
- 2209/10 . having mechanical properties
- 2209/101 . . Vibration damping, energy absorption
- 2209/103 . . Resistant to mechanical forces, e.g. shock, impact, puncture, flexion, shear, compression, tear

- 2209/105 . . Resistant to abrasion, scratch
- 2209/106 . . Roughness, anti-slip, abrasiveness
- 2209/108 . . Slipping, anti-blocking, low friction
- 2209/12 . Permeability or impermeability properties
- 2209/121 . . Permeability to gases, adsorption
- 2209/123 . . . Breathable
- 2209/125 . . . Non-permeable
- 2209/126 . . Permeability to liquids, absorption
- 2209/128 . . . Non-permeable
- 2209/14 . having chemical properties
- 2209/141 . . Hydrophilic
- 2209/142 . . Hydrophobic
- 2209/143 . . Inert, i.e. inert to chemical degradation, corrosion resistant

- 2209/145 . . Oleophobic
- 2209/146 . . Soilproof, soil repellent
- 2209/147 . . Stainproof, stain repellent
- 2209/148 . . Superabsorbing
- 2209/16 . having other properties
- 2209/1607 . . Degradability
- 2209/1614 . . . Biodegradable
- 2209/1621 . . . Water-soluble, water-dispersible
- 2209/1628 . . Dimensional stability
- 2209/1635 . . Elasticity
- 2209/1642 . . Hardnes
- 2209/165 . . Odour absorbing, deodorizing ability
- 2209/1657 . . Printability
- 2209/1664 . . Releasability ([adhesive allowing removal of the whole carpet D06N 2213/066; releasability between at least two layers of a carpet, rug or synthetic lawn D06N 2213/068](#))

- 2209/1671 . . Resistance to bacteria, mildew, mould, fungi
- 2209/1678 . . Resistive to light or to UV
- 2209/1685 . . Wear resistance
- 2209/1692 . . Weather resistance

- 2211/00 Specially adapted uses**
- 2211/02 . Agriculture
- 2211/04 . Belts
- 2211/06 . Building materials
- 2211/063 . . Wall coverings
- 2211/066 . . Floor coverings
- 2211/08 . Cleaning articles ([personal care D06N 2211/24](#))
- 2211/10 . Clothing
- 2211/103 . . Gloves
- 2211/106 . . Footwear
- 2211/12 . Decorative or sun protection articles
- 2211/122 . . Curtains
- 2211/125 . . Awnings, sunblinds
- 2211/127 . . Table cloth
- 2211/14 . . Furniture, upholstery
- 2211/16 . . Geotextiles
- 2211/18 . . Medical, e.g. bandage, prostheses, catheter ([medical patches D06N 2211/22; medical packaging D06N 2211/20](#))

- 2211/20 . . Packaging
- 2211/22 . . Patches, e.g. medical patches, repair patches
- 2211/24 . . Personal care
- 2211/26 . . Vehicles, transportation
- 2211/261 . . . Body finishing, e.g. headliners
- 2211/262 . . . Constructional panels
- 2211/263 . . . Cars

- 2211/265 . . . Trains
- 2211/266 . . . Ships
- 2211/267 . . . Aircraft
- 2211/268 . . . Airbags
- 2211/28 . . Artificial leather
- 2211/30 . Filters

2213/00 Others characteristics

- 2213/02 . All layers being of the same kind of material, e.g. all layers being of polyolefins, all layers being of polyesters
- 2213/03 . Fibrous web coated on one side with at least two layers of the same polymer type, e.g. two coatings of polyolefin
- 2213/04 . Perforated layer
- 2213/045 . . the coating layer does not completely close the openings between the fibres
- 2213/06 . Characteristics of the backing in carpets, rugs, synthetic lawn
- 2213/061 . . Non-continuous back coating or pre-coat
- 2213/063 . . Porous back coating or pre-coat
- 2213/065 . . Two back coatings one next to the other
- 2213/066 . . having an adhesive on the undersurface to allow removal of the whole carpet, rug or synthetic lawn from the floor, e.g. pressure sensitive adhesive
- 2213/068 . . Releasability between at least two of the layers