

CPC**COOPERATIVE PATENT CLASSIFICATION****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 used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

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

D06N 1/00

Linoleum {e.g. linoxyn, polymerised or oxidised resin}

D06N 3/00

Artificial leather, oilcloth or {other} material obtained by covering fibrous webs with macromolecular material, e.g. resins, rubber or derivatives thereof

D06N 3/0002

. {characterised by the substrate}

D06N 3/0004

. . {using ultra-fine two-component fibres, e.g. island/sea, or ultra-fine one component fibres (< 1 denier)}

D06N 3/0006

. . {using woven fabrics}

D06N 3/0009

. . {using knitted fabrics}

D06N 3/0011

. . {using non-woven fabrics}

D06N 3/0013

. . {using multilayer webs}

D06N 3/0015

. . {using fibres of specified chemical or physical nature, e.g. natural silk}

D06N 3/0018

. . . {Collagen fibres or collagen on fibres}

D06N 3/002

. . . {Asbestos fibres}

D06N 3/0022

. . . {Glass fibres}

D06N 3/0025

. . . {Rubber threads; Elastomeric fibres; Stretchable, bulked or crimped fibres; Retractable, crimpable fibres; Shrinking or stretching of fibres during manufacture; Obliquely threaded fabrics}

D06N 3/0027

. . . . {Rubber or elastomeric fibres}

WARNING

Groups [D06N 3/0027-D06N 3/0031](#) are not complete, pending reorganisation. See also [D06N 3/0025](#)

D06N 3/0029

. . . . {Stretchable fibres; Stretching of fibres during manufacture}

D06N 3/0031

. . . . {Retractable fibres; Shrinking of fibres during manufacture}

D06N 3/0034	<ul style="list-style-type: none"> • • • {Polyamide fibres (for elastomeric fibres D06N 3/0025)}
D06N 3/0036	<ul style="list-style-type: none"> • • • {Polyester fibres (for elastomeric fibres D06N 3/0025)}
D06N 3/0038	<ul style="list-style-type: none"> • • • {Polyolefin fibres (for elastomeric fibres D06N 3/0025)}
D06N 3/004	<ul style="list-style-type: none"> • • {using flocked webs or pile fabrics upon which a resin is applied; Teasing, raising web before resin application}
D06N 3/0043	<ul style="list-style-type: none"> • {characterised by their foraminous structure; Characteristics of the foamed layer or of cellular layers (foraminous structure obtained by stretching D06N 3/0029)}
D06N 3/0045	<ul style="list-style-type: none"> • • {obtained by applying a ready-made foam layer; obtained by compressing, crinkling or crushing a foam layer, e.g. Kaschierverfahren für Schaumschicht}
D06N 3/0047	<ul style="list-style-type: none"> • • {obtained by incorporating air, i.e. froth}
D06N 3/005	<ul style="list-style-type: none"> • • {obtained by blowing or swelling agent}
D06N 3/0052	<ul style="list-style-type: none"> • • {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}
D06N 3/0054	<ul style="list-style-type: none"> • • {obtained by mechanical perforations}
D06N 3/0056	<ul style="list-style-type: none"> • {characterised by the compounding ingredients of the macro-molecular coating (D06N 3/005 takes precedence)}
D06N 3/0059	<ul style="list-style-type: none"> • • {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)}
D06N 3/0061	<ul style="list-style-type: none"> • • {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}
D06N 3/0063	<ul style="list-style-type: none"> • • {Inorganic compounding ingredients, e.g. metals, carbon fibres, Na₂CO₃, metal layers; Post-treatment with inorganic compounds}
D06N 3/0065	<ul style="list-style-type: none"> • • {Organic pigments, e.g. dyes, brighteners}
D06N 3/0068	<ul style="list-style-type: none"> • • {Polymeric granules, particles or powder, e.g. core-shell particles, microcapsules}
D06N 3/007	<ul style="list-style-type: none"> • {characterised by mechanical or physical treatments (D06N 3/0029, D06N 3/0031 take precedence)}
D06N 3/0072	<ul style="list-style-type: none"> • • {Slicing; Manufacturing two webs at one time}
D06N 3/0075	<ul style="list-style-type: none"> • • {Napping, teasing, raising or abrading of the resin coating (raising, napping of the web before coating D06N 3/004)}
D06N 3/0077	<ul style="list-style-type: none"> • • {Embossing; Pressing of the surface; Tumbling and crumbling; Cracking; Cooling; Heating, e.g. mirror finish}
D06N 3/0079	<ul style="list-style-type: none"> • • {Suction, vacuum treatment}
D06N 3/0081	<ul style="list-style-type: none"> • • {by wave energy or particle radiation (D06N 3/08 takes precedence)}
D06N 3/0084	<ul style="list-style-type: none"> • • {by electrical processes, e.g. potentials, corona discharge, electrophoresis, electrolytic}
D06N 3/0086	<ul style="list-style-type: none"> • {characterised by the application technique}
D06N 3/0088	<ul style="list-style-type: none"> • • {by directly applying the resin (D06N 3/0045 takes precedence)}
D06N 3/009	<ul style="list-style-type: none"> • • • {by spraying components on the web (powder D06N 3/0093)}
D06N 3/0093	<ul style="list-style-type: none"> • • • {by applying resin powders; by sintering}
D06N 3/0095	<ul style="list-style-type: none"> • • {by inversion technique; by transfer processes}

- D06N 3/0097 . . . {Release surface, e.g. separation sheets; Silicone papers}
- D06N 3/02 . with cellulose derivatives
- D06N 3/04 . with macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
- D06N 3/042 . . {Acrylic polymers ([D06N 3/045](#) takes precedence)}
- D06N 3/045 . . {with polyolefin or polystyrene (co-)polymers}
- D06N 3/047 . . {with fluoropolymers}
- D06N 3/06 . . with polyvinylchloride or its copolymerisation products {(surface treatment or foaming for floor coverings [D06N 7/0007](#))}
- D06N 3/065 . . . {PVC together with other resins except polyurethanes (with polyurethanes [D06N 3/144](#))}
- D06N 3/08 . . . with a finishing layer consisting of polyacrylates, polyamides or polyurethanes {or polyester}
- D06N 3/10 . . with styrene-butadiene copolymerisation products {or other synthetic rubbers or elastomers except polyurethanes}
- D06N 3/103 . . . {Thermosetting synthetic rubbers}
- D06N 3/106 . . . {Elastomers}
- D06N 3/12 . with macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, {e.g. gelatine proteins}
- D06N 3/121 . . {with polyesters, polycarbonates, alkyds ([oils D06N 3/16](#))}
- D06N 3/123 . . . {with polyesters}
- D06N 3/125 . . {with polyamides}
- D06N 3/126 . . . {Poly-amino acids, e.g. polyglutamates}
- D06N 3/128 . . {with silicon polymers}
- D06N 3/14 . . with polyurethanes
- D06N 3/141 . . . {mixture of two or more polyurethanes in the same layer}
- D06N 3/142 . . . {mixture of polyurethanes with other resins in the same layer}
- D06N 3/143 {with polyurethanes and other polycondensation or polyaddition products, e.g. aminoplast}
- D06N 3/144 {with polyurethane and polymerisation products, e.g. acrylics, PVC}
- D06N 3/145 . . . {two or more layers of polyurethanes}
- D06N 3/146 . . . {characterised by the macromolecular diols used}
- D06N 3/147 . . . {characterised by the isocyanates used}
- D06N 3/148 {(cyclo)aliphatic polyisocyanates}
- D06N 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}
- D06N 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](#))}
- D06N 3/183 . . {the layers are one next to the other}

WARNING

D06N 3/183
(continued)

Groups [D06N 3/183](#) and [D06N 3/186](#) are not complete, pending reorganisation. See also [D06N 3/18](#)

D06N 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}

D06N 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](#))}

D06N 5/003 . {coated with bitumen}

D06N 5/006 . . {characterised by the means to apply it to a support or to another roofing membrane, e.g. self-adhesive layer or strip}

D06N 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}

D06N 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](#)

D06N 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}

D06N 7/0007 . . {characterised by their relief structure}

D06N 7/001 . . . {obtained by mechanical embossing}

D06N 7/0013 . . . {obtained by chemical embossing (chemisches Prägen)}

D06N 7/0015 {use of inhibitor for the blowing agent or inhibitor for the kicker e.g. trimellitic anhydride, triazole}

D06N 7/0018 {use of kicker for the blowing agent, e.g. Beschleunigungsverfahren}

D06N 7/0021 {use of a swelling agent}

D06N 7/0023 . . . {obtained by physical means, e.g. differential heating or differential irradiation; masking certain areas during treating}

D06N 7/0026 . . . {obtained by moulding, e.g. moulding table (tapis moule)}

D06N 7/0028 . . {characterised by colour effects, e.g. craquelè, reducing gloss (terrazzo by sintering [D06N 7/0057](#))}

D06N 7/0031 . . . {mixture of two or more dyes, pigments, brighteners in the same layer}

D06N 7/0034 . . . {two or more different colour layers}

D06N 7/0036 . . {characterised by their backing, e.g. secondary backing, back-sizing}

D06N 7/0039 . . {characterised by the physical or chemical aspects of the layers}

D06N 7/0042 . . . {Conductive or insulating layers; Antistatic layers; Flame-proof layers}

D06N 7/0044 . . . {Sealing or barrier layers, e.g. against solvents, asphalt, plasticisers}

D06N 7/0047 . . . {Special extra layers under the surface coating, e.g. wire threads}

D06N 7/0049 {Fibrous layer(s); Fibre reinforcement; Fibrous fillers}

D06N 7/0052 . . . {Compounding ingredients, e.g. rigid elements (compounding ingredients of the macromolecular coating [D06N 3/0056](#))}

D06N 7/0055 {Particulate material such as cork, rubber particles, reclaimed resin particles, magnetic particles, metal particles, glass beads}
D06N 7/0057	. . . {Layers obtained by sintering or glueing the granules together}
D06N 7/006	. . {characterised by the textile substrate as base web (for intermediate fibrous webs D06N 7/0049)}
D06N 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}
<u>WARNING</u>	
Groups D06N 7/0063-D06N 7/0084 are not complete, pending reorganisation. See also D06N 7/0036	
D06N 7/0065	. . {characterised by the pile}
<u>WARNING</u>	
Groups D06N 7/0065 , D06N 7/0068 are not complete, pending reorganisation. See also D06N 7/006	
D06N 7/0068	. . {characterised by the primary backing or the fibrous top layer}
D06N 7/0071	. . {characterised by their backing, e.g. pre-coat, back coating, secondary backing, cushion backing}
D06N 7/0073	. . . {the back coating or pre-coat being applied as an aqueous dispersion or latex}
D06N 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}
D06N 7/0078	. . . {the back coating or pre-coat being applied as a hot melt}
D06N 7/0081	. . . {with at least one extra fibrous layer at the backing, e.g. stabilizing fibrous layer, fibrous secondary backing}
D06N 7/0084	. . . {with at least one layer obtained by sintering or bonding granules together}
D06N 7/0086	. . . {characterised by the cushion backing, e.g. foamed polyurethane}
D06N 7/0089	. . {Underlays}
D06N 7/0092	. {Non-continuous polymer coating on the fibrous substrate, e.g. plastic dots on fabrics}
D06N 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}
D06N 7/0097	. {Web coated with fibres, e.g. flocked}
D06N 2201/00	Chemical constitution of the fibres, threads or yarns
D06N 2201/02	. Synthetic macromolecular fibres
D06N 2201/0209	. . Elastomeric, elastic fibres, e.g. spandex, lycra
D06N 2201/0218	. . Vinyl resin fibres
D06N 2201/0227	. . . Aromatic vinyl resin, e.g. styrenic (co)polymers
D06N 2201/0236	. . . Vinyl halide, e.g. PVC,PVDC,PVF,PVDF
D06N 2201/0245	. . Acrylic resin fibres
D06N 2201/0254	. . Polyolefin fibres
D06N 2201/0263	. . Polyamide fibres

D06N 2201/0272	. . . Aromatic polyamide fibres
D06N 2201/0281	. . Polyurethane fibres
D06N 2201/029	. . Fluoropolymer fibres
D06N 2201/04	. Vegetal fibres
D06N 2201/042	. . Cellulose fibres, e.g. cotton
D06N 2201/045	. . . Lignocellulosic fibres, e.g. jute, sisal, hemp, flax, bamboo
D06N 2201/047	. . . Wood fibres
D06N 2201/06	. Animal fibres , e.g hair, wool, silk
D06N 2201/08	. Inorganic fibres
D06N 2201/082	. . Glass fibres
D06N 2201/085	. . Metal fibres
D06N 2201/087	. . Carbon fibres
D06N 2201/10	. Conjugate fibres , e.g. core-sheath, side-by-side
D06N 2201/12	. Fibres being in the form of a tape, strip or ribbon

<NO TITLE>**D06N 2203/00****Macromolecular materials of the coating layers**

D06N 2203/02	. Natural macromolecular compounds or derivatives thereof
D06N 2203/022	. . Natural rubber
D06N 2203/024	. . Polysaccharides or derivatives thereof
D06N 2203/026	. . . Cellulose or derivatives thereof
D06N 2203/028	. . . Starch or derivatives thereof
D06N 2203/04	. Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
D06N 2203/041	. . Polyacrylic
D06N 2203/042	. . Polyolefin (co)polymers
D06N 2203/044	. . Fluoropolymers
D06N 2203/045	. . Vinyl (co)polymers
D06N 2203/047	. . . Aromatic vinyl (co)polymers, e.g. styrene
D06N 2203/048	. . . Polyvinylchloride (co)polymers
D06N 2203/06	. Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
D06N 2203/061	. . Polyesters
D06N 2203/063	. . Polycarbonates
D06N 2203/065	. . Polyamides
D06N 2203/066	. . Silicon polymers
D06N 2203/068	. . Polyurethanes
D06N 2203/08	. Bituminous material, e.g. asphalt, tar, bitumen

D06N 2205/00**Condition, form or state of the materials**

- D06N 2205/02 . Dispersion
- D06N 2205/023 . . Emulsion, aqueous dispersion, latex
- D06N 2205/026 . . Plastisol
- D06N 2205/04 . Foam
- D06N 2205/045 . . Froth
- D06N 2205/06 . Melt
- D06N 2205/08 . Microballoons, microcapsules
- D06N 2205/10 . Particulate form, e.g. powder, granule
- D06N 2205/103 . . Nanoparticles
- D06N 2205/106 . . Scrap or recycled particles
- D06N 2205/12 . Platelets, flakes
- D06N 2205/14 . Fibrous additives or fillers
- D06N 2205/16 . Solution
- D06N 2205/18 . Scraps or recycled materials ([D06N 2205/106 takes precedence](#))
- D06N 2205/20 . Cured materials e.g. vulcanised, cross-linked
- D06N 2205/22 . Partially cured
- D06N 2205/24 . Coagulated materials
- D06N 2205/243 . . by heating, steam
- D06N 2205/246 . . by extracting the solvent

D06N 2207/00**Treatments by energy or chemical effects**

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

D06N 2209/00**Properties of the materials**

- D06N 2209/02 . having acoustical properties
- D06N 2209/025 . . Insulating, sound absorber
- D06N 2209/04 . having electrical or magnetic properties
- D06N 2209/041 . . Conductive
- D06N 2209/043 . . Insulating
- D06N 2209/045 . . Magnetic, paramagnetic
- D06N 2209/046 . . Anti-static
- D06N 2209/048 . . Electromagnetic interference shielding

D06N 2209/06	. having thermal properties
D06N 2209/062	. . Conductive
D06N 2209/065	. . Insulating
D06N 2209/067	. . Flame resistant, fire resistant
D06N 2209/08	. having optical properties
D06N 2209/0807	. . Coloured
D06N 2209/0815	. . . on the layer surface, e.g. ink
D06N 2209/0823	. . . within the layer by addition of a colorant, e.g. pigments, dyes
D06N 2209/083	. . . Multi-coloured
D06N 2209/0838	. . Bright, glossy, shiny surface
D06N 2209/0846	. . Matt, dull surface
D06N 2209/0853	. . Opaque
D06N 2209/0861	. . Transparent
D06N 2209/0869	. . Translucent
D06N 2209/0876	. . Reflective
D06N 2209/0884	. . Refractive
D06N 2209/0892	. . Luminescent, fluorescent, phosphorescent
D06N 2209/10	. having mechanical properties
D06N 2209/101	. . Vibration damping, energy absorption
D06N 2209/103	. . Resistant to mechanical forces e.g. shock, impact, puncture, flexion, shear, compression, tear
D06N 2209/105	. . Resistant to abrasion, scratch
D06N 2209/106	. . Roughness, anti-slip, abrasiveness
D06N 2209/108	. . Slipping, anti-blocking, low friction
D06N 2209/12	. Permeability or impermeability properties
D06N 2209/121	. . Permeability to gases, adsorption
D06N 2209/123	. . . Breathable
D06N 2209/125	. . . Non-permeable
D06N 2209/126	. . Permeability to liquids, absorption
D06N 2209/128	. . . Non-permeable
D06N 2209/14	. having chemical properties
D06N 2209/141	. . Hydrophilic
D06N 2209/142	. . Hydrophobic
D06N 2209/143	. . Inert, i.e. inert to chemical degradation, corrosion resistant
D06N 2209/145	. . Oleophobic
D06N 2209/146	. . Soilproof, soil repellent
D06N 2209/147	. . Stainproof, stain repellent
D06N 2209/148	. . Superabsorbing
D06N 2209/16	. having other properties
D06N 2209/1607	. . Degradability

- D06N 2209/1614 . . . Biodegradable
- D06N 2209/1621 . . . Water-soluble, water-dispersible
- D06N 2209/1628 . . Dimensional stability
- D06N 2209/1635 . . Elasticity
- D06N 2209/1642 . . Hardnes
- D06N 2209/165 . . Odour absorbing, deodorizing ability
- D06N 2209/1657 . . Printability
- D06N 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](#))
- D06N 2209/1671 . . Resistance to bacteria, mildew, mould, fungi
- D06N 2209/1678 . . Resistive to light or to UV
- D06N 2209/1685 . . Wear resistance
- D06N 2209/1692 . . Weather resistance

D06N 2211/00**Specially adapted uses**

- D06N 2211/02 . Agriculture
- D06N 2211/04 . Belts
- D06N 2211/06 . Building materials
- D06N 2211/063 . . Wall coverings
- D06N 2211/066 . . Floor coverings
- D06N 2211/08 . Cleaning articles ([personal care D06N 2211/24](#))
- D06N 2211/10 . Clothing
- D06N 2211/103 . . Gloves
- D06N 2211/106 . . Footwear
- D06N 2211/12 . Decorative or sun protection articles
- D06N 2211/122 . . Curtains
- D06N 2211/125 . . Awnings, sunblinds
- D06N 2211/127 . . Table cloth
- D06N 2211/14 . . Furniture, upholstery
- D06N 2211/16 . . Geotextiles
- D06N 2211/18 . . Medical, e.g. bandage, prostheses, catheter ([medical patches D06N 2211/22](#); [medical packaging D06N 2211/20](#))
- D06N 2211/20 . . Packaging
- D06N 2211/22 . . Patches, e.g. medical patches, repair patches
- D06N 2211/24 . . Personal care
- D06N 2211/26 . . Vehicles, transportation
- D06N 2211/261 . . . Body finishing, e.g. headliners
- D06N 2211/262 . . . Constructional panels
- D06N 2211/263 . . . Cars
- D06N 2211/265 . . . Trains

- D06N 2211/266 . . . Ships
- D06N 2211/267 . . . Aircraft
- D06N 2211/268 . . . Airbags
- D06N 2211/28 . . Artificial leather
- D06N 2211/30 . Filters

D06N 2213/00**Others characteristics**

- D06N 2213/02 . All layers being of the same kind of material, e.g. all layers being of polyolefins, all layers being of polyesters
- D06N 2213/03 . Fibrous web coated on one side with at least two layers of the same polymer type, e.g. two coatings of polyolefin
- D06N 2213/04 . Perforated layer
- D06N 2213/045 . . the coating layer does not completely close the openings between the fibres
- D06N 2213/06 . Characteristics of the backing in carpets, rugs, synthetic lawn
- D06N 2213/061 . . Non-continuous back coating or pre-coat
- D06N 2213/063 . . Porous back coating or pre-coat
- D06N 2213/065 . . Two back coatings one next to the other
- D06N 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
- D06N 2213/068 . . Releasability between at least two of the layers