

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	... {Polyamide fibres (for elastomeric fibres D06N 3/0025)}
D06N 3/0036	... {Polyester fibres (for elastomeric fibres D06N 3/0025)}
D06N 3/0038	... {Polyolefin fibres (for elastomeric fibres D06N 3/0025)}
D06N 3/004	.. {using flocked webs or pile fabrics upon which a resin is applied; Teasing, raising web before resin application}
D06N 3/0043	. {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	.. {obtained by applying a ready-made foam layer; obtained by compressing, crinkling or crushing a foam layer, e.g. Kaschiervverfahren für Schaumschicht}
D06N 3/0047	.. {obtained by incorporating air, i.e. froth }
D06N 3/005	.. {obtained by blowing or swelling agent}
D06N 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}
D06N 3/0054	.. {obtained by mechanical perforations}
D06N 3/0056	. {characterised by the compounding ingredients of the macro-molecular coating }(D06N 3/005 takes precedence)
D06N 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)}
D06N 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}
D06N 3/0063	.. {Inorganic compounding ingredients, e.g. metals, carbon fibres, Na ₂ CO ₃ , metal layers; Post-treatment with inorganic compounds}
D06N 3/0065	.. {Organic pigments, e.g. dyes, brighteners}
D06N 3/0068	.. {Polymeric granules, particles or powder, e.g. core-shell particles, microcapsules }
D06N 3/007	. {characterised by mechanical or physical treatments (D06N 3/0029 , D06N 3/0031 take precedence)}
D06N 3/0072	.. {Slicing; Manufacturing two webs at one time}
D06N 3/0075	.. {Napping, teasing, raising or abrading of the resin coating (raising, napping of the web before coating D06N 3/004)}
D06N 3/0077	.. {Embossing; Pressing of the surface; Tumbling and crumbling; Cracking; Cooling; Heating, e.g. mirror finish}
D06N 3/0079	.. {Suction, vacuum treatment}
D06N 3/0081	.. {by wave energy or particle radiation (D06N 3/08 takes precedence)}
D06N 3/0084	.. {by electrical processes, e.g. potentials, corona discharge, electrophoresis, electrolytic}
D06N 3/0086	. {characterised by the application technique}
D06N 3/0088	.. {by directly applying the resin (D06N 3/0045 takes precedence)}
D06N 3/009	... {by spraying components on the web (powder D06N 3/0093)}
D06N 3/0093	... {by applying resin powders; by sintering}

- D06N 3/0095 . . {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, resinsates 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}

WARNING

Groups [D06N 7/0063-D06N 7/0084](#) are not complete, pending reorganisation.
See also [D06N 7/0036](#)

- D06N 7/0065 . . {characterised by the pile}

WARNING

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