

**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. Kaschiervfahren 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<sub>2</sub>CO<sub>3</sub>, 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, resins 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**

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 7/00A**, **D06N 7/00D**-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 7/00C](#)-[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

**Guidance heading:** <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
<b>D06N 2205/00</b>		<b>Condition, form or state of the materials</b>
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 ( <a href="#">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</a> )
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 ( <a href="#">personal care D06N 2211/24</a> )
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 ( <a href="#">medical patches D06N 2211/22; medical packaging D06N 2211/20</a> )
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