

# CPC COOPERATIVE PATENT CLASSIFICATION

## D10B INDEXING SCHEME ASSOCIATED WITH SUBLASSES OF SECTION D, RELATING TO TEXTILES

### NOTES

1. This subclass constitutes a scheme for indexing only.
2. The indexing codes of this subclass, relating to the chemical constitution of the fibrous materials, are to be associated with groups of section D, with the exception of those of subclass D06M, as far as these groups themselves do not give information about the chemical nature of the fibres.
3. In a number of fields, the indexing codes relating to the chemical constitution of the fibrous materials are not allotted to documents having an abstract in which the chemical constitution is clearly stated, e.g. if the abstract mentions "polyamide", code D10B 2331/021 is not allotted.
4. Blends of fibres are indexed according to each constituent fibre.

#### 2101/00 Inorganic fibres

- 2101/02 . based on oxides or oxide ceramics, e.g. silicates
- 2101/04 . . Asbestos
- 2101/06 . . Glass
- 2101/08 . . Ceramic
- 2101/10 . based on non-oxides other than metals
- 2101/12 . . Carbon; Pitch
- 2101/122 . . . Nano-carbons
- 2101/14 . . Carbides; Nitrides; Silicides; Borides
- 2101/16 . . . Silicon carbide
- 2101/20 . Metallic fibres

#### 2201/00 Cellulose-based fibres, e.g. vegetable fibres

- 2201/01 . Natural vegetable fibres
- 2201/02 . . Cotton
- 2201/04 . . Linen
- 2201/06 . . Jute
- 2201/08 . . Ramie
- 2201/10 . . Bamboo
- 2201/20 . Cellulose-derived artificial fibres
- 2201/22 . . made from cellulose solutions
- 2201/24 . . . Viscose
- 2201/26 . . Nitrocellulose
- 2201/28 . . Cellulose esters or ethers, e.g. cellulose acetate
- 2201/30 . . . Ethers, e.g. CMC

#### 2211/00 Protein-based fibres, e.g. animal fibres

- 2211/01 . Natural animal fibres, e.g. keratin fibres
- 2211/02 . . Wool
- 2211/04 . . Silk
- 2211/06 . . Collagen fibres
- 2211/20 . Protein-derived artificial fibres
- 2211/22 . . Fibroin
- 2211/24 . . Casein
- 2211/26 . . Globulin, e.g. groundnut protein

#### 2321/00 Fibres made from polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds

- 2321/02 . polyolefins
- 2321/021 . . polyethylene
- 2321/0211 . . . high-strength or high-molecular-weight polyethylene, e.g. dyneema, spectra
- 2321/022 . . polypropylene
- 2321/04 . polymers of halogenated hydrocarbons
- 2321/041 . . polyvinyl chloride or polyvinylidene chloride

- 2321/042 . . polymers of fluorinated hydrocarbons, e.g. polytetrafluoroethene [PTFE]
- 2321/06 . polymers of unsaturated alcohols, e.g. polyvinyl alcohol, or of their acetals or ketals
- 2321/08 . polymers of unsaturated carboxylic acids or unsaturated organic esters, e.g. polyacrylic esters, polyvinyl acetate
- 2321/10 . polymers of unsaturated nitriles, e.g. polyacrylonitrile, polyvinylidene cyanide
- 2321/101 . . modacrylic
- 2321/12 . polymers of cyclic compounds with one carbon-to-carbon double bond in the side chain
- 2321/121 . . polystyrene

#### 2331/00 Fibres made from polymers obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polycondensation products

- 2331/02 . polyamides (D10B 2331/08 takes precedence)
- 2331/021 . . aromatic polyamides, e.g. aramides
- 2331/04 . polyesters, e.g. polyethylene terephthalate [PET]
- 2331/041 . . derived from hydroxy-carboxylic acids, e.g. lactones
- 2331/042 . . aromatic polyesters, e.g. vectran
- 2331/06 . polyethers
- 2331/061 . . polyetherketones, polyetheretherketones, e.g. PEEK
- 2331/08 . polyamino acids or polypeptides
- 2331/10 . polyurethanes
- 2331/12 . polyureas
- 2331/14 . polycondensates of cyclic compounds, e.g. polyimides, polybenzimidazoles
- 2331/30 . polycondensation products not covered by indexing codes D10B 2331/02 - D10B 2331/14
- 2331/301 . . polyarylene sulfides, e.g. polyphenylenesulfide

#### 2401/00 Physical properties

- 2401/02 . Moisture-responsive characteristics
- 2401/021 . . hydrophobic
- 2401/022 . . hydrophylic
- 2401/024 . . soluble
- 2401/04 . Heat-responsive characteristics
- 2401/041 . . thermoplastic; thermosetting
- 2401/046 . . Shape recovering or form memory
- 2401/06 . Load-responsive characteristics
- 2401/061 . . elastic
- 2401/062 . . stiff, shape retention
- 2401/063 . . high strength

## D10B

2401/08	. foamed	2403/031	. . Narrow fabric of constant width
2401/10	. porous	2403/0311	. . . Small thickness fabric, e.g. ribbons, tapes or straps
2401/12	. biodegradable	2403/0312	. . . Bulk fabric, e.g. belts
2401/13	. anti-allergenic or anti-bacterial	2403/032	. . Flat fabric of variable width, e.g. including one or more fashioned panels
2401/14	. Dyeability	2403/033	. . Three dimensional fabric, e.g. forming or comprising cavities in or protrusions from the basic planar configuration, or deviations from the cylindrical shape as generally imposed by the fabric forming process
2401/16	. antistatic; conductive	2403/0331	. . . with one or more convex or concave portions of limited extension, e.g. domes or pouches
2401/18	. including electronic components	2403/0332	. . . with gussets folding into three dimensional shape, e.g. seat covers
2401/20	. optical	2403/0333	. . . with tubular portions of variable diameter or distinct axial orientation
2401/22	. protective against sunlight or UV radiation		
<b>2403/00</b>	<b>Details of fabric structure established in the fabric forming process</b>	<b>2501/00</b>	<b>Wearing apparel</b>
2403/01	. Surface features	2501/02	. Underwear
2403/011	. . Dissimilar front and back faces	2501/021	. . Hosiery; Panti-hose
2403/0111	. . . One hairy surface, e.g. napped or raised (for pile fabrics <a href="#">D03D 27/00</a> , <a href="#">D04B 1/02</a> , <a href="#">D04B 21/02</a> )	2501/04	. Outerwear; Protective garments
2403/0112	. . . One smooth surface, e.g. laminated or coated	2501/041	. . Gloves
2403/0113	. . . One surface including hollow piping or integrated straps, e.g. for inserts or mountings	2501/042	. . Headwear
2403/0114	. . . with one or more yarns appearing predominantly on one face, e.g. plated or paralleled yarns (for pile fabrics <a href="#">D03D 27/00</a> , <a href="#">D04B 1/02</a> , <a href="#">D04B 21/02</a> ; for intarsia fabrics <a href="#">D04B 1/126</a> )	2501/043	. . Footwear
2403/012	. . Alike front and back faces	2501/044	. . Fur garments; Garments of fur substitutes
2403/0121	. . . Two hairy surfaces, e.g. napped or raised (for pile fabrics <a href="#">D03D 27/00</a> , <a href="#">D04B 1/02</a> , <a href="#">D04B 21/02</a> )	2501/045	. . Neckties
2403/0122	. . . Smooth surfaces, e.g. laminated or coated	2501/06	. Details of garments
2403/0123	. . . Both surfaces including hollow piping or integrated straps, e.g. for inserts or mountings	2501/061	. . Piped openings (pockets)
2403/02	. Cross-sectional features (for three-dimensional features <a href="#">D10B 2403/033</a> )	2501/062	. . Buttonholes
2403/021	. . Lofty fabric with equidistantly spaced front and back plies, e.g. spacer fabrics	2501/063	. . Fasteners
2403/0211	. . . with corrugated plies	2501/0631	. . . Slide fasteners
2403/0212	. . . with baggy or puckered plies	2501/0632	. . . of the touch-and-close type
2403/0213	. . . with apertures, e.g. with one or more mesh fabric plies		
2403/022	. . Lofty fabric with variably spaced front and back plies, e.g. spacer fabrics	<b>2503/00</b>	<b>Domestic or personal</b>
2403/0221	. . . with at least one corrugated ply	2503/02	. Curtains
2403/0222	. . . with at least one baggy or puckered ply	2503/03	. Inside roller shades or blinds
2403/0223	. . . with apertures, e.g. with one or more mesh fabric plies	2503/04	. Floor or wall coverings; Carpets
2403/023	. . Fabric with at least two, predominantly unlinked, knitted or woven plies interlaced with each other at spaced locations or linked to a common internal co-extensive yarn system	2503/041	. . Carpet backings
2403/0231	. . . including contracting yarn, e.g. blister fabrics	2503/042	. . . Primary backings for tufted carpets
2403/024	. . Fabric incorporating additional compounds	2503/06	. Bed linen
2403/0241	. . . enhancing mechanical properties	2503/062	. . Fitted bedsheets
2403/02411	. . . . with a single array of unbent yarn, e.g. unidirectional reinforcement fabrics	2503/08	. Wigs
2403/02412	. . . . including several arrays of unbent yarn, e.g. multiaxial fabrics	2503/10	. Umbrellas
2403/0242	. . . enhancing chemical properties		
2403/02421	. . . . containing particulate matter, e.g. powder or granulate	<b>2505/00</b>	<b>Industrial</b>
2403/0243	. . . enhancing functional properties	2505/02	. Reinforcing materials; Prepregs
2403/02431	. . . . with electronic components, e.g. sensors or switches	2505/022	. . for tyres
2403/03	. Shape features	2505/04	. Filters
		2505/06	. Packings, gaskets, seals
		2505/08	. Upholstery, mattresses
		2505/10	. Packaging, e.g. bags
		2505/12	. Vehicles ( <a href="#">D10B 2505/08 takes precedence</a> )
		2505/122	. . Safety belts
		2505/124	. . Air bags
		2505/18	. Outdoor fabrics, e.g. tents, tarpaulins ( <a href="#">D10B 2507/00 takes precedence</a> )
		2505/20	. for civil engineering, e.g. geotextiles
		2505/202	. . Artificial grass
		2505/204	. . Geotextiles
		<b>2507/00</b>	<b>Sport; Military</b>
		2507/02	. Nets
		2507/04	. Sails

## D10B

- 2507/06 . Parachutes
- 2507/08 . Balls
- 2507/10 . Balloons

### **2509/00 Medical; Hygiene**

- 2509/02 . Bandages, dressings or absorbent pads
- 2509/022 . . Wound dressings
- 2509/024 . . Stiffening bandages, e.g. with plaster of Paris
- 2509/026 . . Absorbent pads; Tampons; Laundry; Towels
- 2509/028 . . Elastic support stockings or elastic bandages
- 2509/04 . Sutures
- 2509/06 . Vascular grafts; stents
- 2509/08 . Hernia repair mesh