# International Patent Classification

Core Level (2009.01)

Volume 2

Section D

Textiles; Paper

## **SECTION D -TEXTILES; PAPER**

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(References and notes omitted)

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D01C	of carbon filaments		Боов	vapours	20
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## **SECTION D - TEXTILES; PAPER**

#### TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

**D01 NATURAL OR ARTIFICIAL THREADS OR FIBRES**; **SPINNING** (metal threads B21; fibres or filaments of softened glass, minerals, or slag C03B 37/00; yarns D02)

#### **Note**

In this class, the following terms are used with the meanings indicated:

- "fibre" means a relatively-short, elongated member of natural or artificial material;
- "filament" means an endless or quasi-endless, elongated member of natural or artificial material;
- "yarn" means a unitary assembly of fibres, usually produced by spinning;
- "thread" means an assembly of yarns or filaments, usually produced by twisting.

# D01B MECHANICAL TREATMENT OF NATURAL FIBROUS OR FILAMENTARY MATERIAL TO OBTAIN FIBRES OR FILAMENTS, E.G. FOR SPINNING (crude extraction of asbestos fibres from ores B03B; apparatus for retting D01C)

#### **Note**

Attention is drawn to the Note following the title of class D01.

## **Subclass Index**

TREATM	MENT OF PLANT MATERIAL	TREATMENT OF ANIMAL FIBRES	
	Separation of fibres from plant material	OTHER '	De-burring, washing, scouring       3/00         Obtaining silk fibres       7/00         TREATMENTS       9/00
1/00	Mechanical separation of fibres from plant material, e.g. seeds, leaves, stalks	5/00	Hackling or heckling machines (hand heckling tools D01G 33/00)
3/00	Mechanical removal of impurities from animal fibres	7/00	Obtaining silk fibres or filaments
	(carbonising rags to recover animal fibres D01C 5/00; de-burring arrangements forming part of, or intimately associated with, carding or drafting machines, e.g. burrcrushing rollers, D01G) [2]	9/00	Other mechanical treatment of natural fibrous or filamentary material to obtain fibres or filaments

# D01C CHEMICAL TREATMENT OF NATURAL FILAMENTARY OR FIBROUS MATERIAL TO OBTAIN FILAMENTS OR FIBRES FOR SPINNING; CARBONISING RAGS TO RECOVER ANIMAL FIBRES

#### Notes

- (1) Attention is drawn to the Note following the title of class D01.
- (2) Processes using enzymes or micro-organisms in order to:
  - (i) liberate, separate or purify a pre-existing compound or composition, or to
  - (ii) treat textiles or clean solid surfaces of materials

are further classified in subclass C12S. [5]

#### 1/00 Treatment of vegetable material

- 3/00 Treatment of animal material, e.g. chemical scouring of wool (recovery of lanolin or wool wax C11B 11/00)
- 5/00 Carbonising rags to recover animal fibres (chemical removal of vegetable impurities from threads or fabrics of animal fibres D06M)

# D01D MECHANICAL METHODS OR APPARATUS IN THE MANUFACTURE OF ARTIFICIAL FILAMENTS, THREADS, FIBRES, BRISTLES, OR RIBBONS

#### Notes

- (1) Attention is drawn to the Note following the title of class D01.
- (2) Apparatus specially adapted for the manufacture of carbon filaments are classified in group D01F 9/12. [5]

#### **Subclass Index**

	NICAL TREATMENT OF NT-FORMING MATERIAL1/00		Physical treatment during manufacture10/00
PRODUC	TION OF ARTIFICIAL FIBRES		Other operations
	Methods	COMPLE	ETE MACHINES; DETAILS13/00; 4/00, 7/00, 11/00
1/00	Treatment of filament-forming or like material (working of plastics or substances in a plastic state, in	5/30	therefor [3]
4/00	general B29)  Spinnerette packs; Cleaning thereof (D01D 5/00,	5/34	Core-skin structure; Spinnerette packs therefor [3]
5 /00	D01D 5/28 take precedence) [3]	7/00	<b>Collecting the newly-spun products</b> (collecting newly-spun products with the imparting of twist D01H)
<b>5/00</b> 5/06	Formation of filaments, threads, or the like	10/00	Dl
5/08	<ul><li>Wet spinning methods</li><li>Melt-spinning methods</li></ul>	10/00	Physical treatment of artificial filaments or the like during manufacture, i.e. during a continuous
5/088	Cooling filaments, threads or the like, leaving the spinnerettes [3]		production process before the filaments have been collected (finishing D02J) [4]
5/12	Stretch-spinning methods (finishing by stretching D02J 1/22)	11/00	Other features of manufacture
5/28	<ul> <li>while mixing different spinning solutions or melts during the spinning operation; Spinnerette packs therefor</li> </ul>	13/00	Complete machines for producing artificial threads

# D01F CHEMICAL FEATURES IN THE MANUFACTURE OF ARTIFICIAL FILAMENTS, THREADS, FIBRES, BRISTLES, OR RIBBONS; APPARATUS SPECIALLY ADAPTED FOR THE MANUFACTURE OF CARBON FILAMENTS [2]

#### **Notes**

- (1) Attention is drawn to the Note following the title of class D01.
- (2) Processes using enzymes or micro-organisms in order to:
  - (i) liberate, separate or purify a pre-existing compound or composition, or to
  - (ii) treat textiles or clean solid surfaces of materials are further classified in subclass C12S. [5]

GENERAL PROCESSES			From synthetic resins		
FILAMENTS AND MANUFACTURE			From other materials		
THEREO			Multicomponent filaments		
	From cellulose or derivatives; from		AFTER-TREATMENT; RECOVERY OF		
	proteins	STARTI	NG MATERIAL11/00; 13/00		
<b>1/00</b> 1/02	General methods for the manufacture of artificial filaments or the like  Addition of substances to the spinning solution or to the melt (addition of substances to viscose D01F 2/00)	<b>2/00</b> 2/24	Monocomponent artificial filaments or the like of cellulose or cellulose derivatives; Manufacture thereof [2] . from cellulose derivatives [2]		
1/10	. Other agents for modifying properties [2]	4/00	Monocomponent artificial filaments or the like of proteins; Manufacture thereof [2]		

6/00	Monocomponent artificial filaments or the like of synthetic polymers; Manufacture thereof [2]	6/88	<ul> <li>from mixtures of polycondensation products as major constituent with other polymers or low-molecular- weight compounds [2]</li> </ul>
<u>Note</u>		6/92	of polyesters [2]
	In this group, the percentage for determining the major constituent is expressed in mole percent. [8]	<b>8/00</b> 8/04	Conjugated, i.e. bi- or multicomponent, artificial filaments or the like; Manufacture thereof [2] . from synthetic polymers [2]
6/02 6/04	<ul> <li>from homopolymers obtained by reactions only involving carbon-to-carbon unsaturated bonds [2]</li> <li>from polyolefins [2]</li> </ul>	8/06 8/12 8/14	<ul> <li>with at least one polyolefin as constituent [2]</li> <li>with at least one polyamide as constituent [2]</li> <li>with at least one polyester as constituent [2]</li> </ul>
6/18 6/28	<ul> <li>from polymers of unsaturated nitriles,</li> <li>e.g. polyacrylonitrile, polyvinylidene cyanide [2]</li> <li>from copolymers obtained by reactions only</li> </ul>	9/00	Artificial filaments or the like of other substances; Manufacture thereof; Apparatus specially adapted
6/44	involving carbon-to-carbon unsaturated bonds [2]  from mixtures of polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds as major constituent with other polymers or low-	9/08	for the manufacture of carbon filaments [5]  of inorganic material (from softened glass, minerals, or slags C03B 37/00; incandescent bodies F21H, H01K 1/00, H01K 3/00) [2]
6/46 6/58 6/60	molecular-weight compounds [2] . of polyolefins [2] . from homopolycondensation products [2] . from polyamides (from polyamino acids or	9/12 9/14 9/145	<ul> <li>Carbon filaments; Apparatus specially adapted for the manufacture thereof [2,5]</li> <li>by decomposition of organic filaments [2,5]</li> <li>from pitch or distillation residues [5]</li> </ul>
6/62 6/64 6/78 6/84	polypeptides D01F 6/58) [2]  . from polyesters [2]  . from polycarbonates [2]  . from copolycondensation products [2]  . from copolyesters [2]	11/00 13/00	Chemical after-treatment of artificial filaments or the like during manufacture (finishing D06M) [2] Recovery of starting material, waste material, or solvents during the manufacture of artificial
0/04	Hom copolycates [2]		filaments or the like [2]

**D01G** PRELIMINARY TREATMENT OF FIBRES, E.G. FOR SPINNING (winding or unwinding, conducting or guiding laps, webs, slivers, or rovings in general, sliver or roving cans, depositing in sliver or roving cans B65H; preparation of fibres for paper-making D21)

#### Note

Attention is drawn to the Note following the title of class D01.

OPERATIONS BE MACHINES THE	FORE CARDING; REFOR		IG OR SUBSEQUENT TONS; MACHINES THEREFOR	
sorting	g fibre bales; separating and of fibres; opening or g fibres		Feeding or conveying fibres for machines; lap-forming; lap-winding; lubricating fibres	23/00; 25/00; 27/00; 29/00
	g of continuous filaments; ning of fibres1/00; 3/00		Carding and burr-crushing, combing	15/00, 19/00
	ry of fibres by breaking-up ontaining articles11/00		RESSING; TREATMENT OF	17/00; 35/00
	of fibres, or of fibres with rous materials	PROCES	VATION OF MACHINES OR SES FOR CONTINUOUS SING	21/00
		WARNIN	NG OR SAFETY DEVICES	
			OOLS FOR TREATMENT OF	33/00
		OTHER I	PRELIMINARY TREATMENTS	37/00
e.g. staj	ng continuous filaments or long fibres, pling (drafting arrangements, twisting ments D01H)	5/00	Separating, e.g. sorting, fibres (separ differing lengths in silk-dressing mach in combing machines D01G 19/00)	_
3/00 Roughe	ening of fibres	7/00	Breaking or opening fibre bales	

9/00	Opening or cleaning fibres, e.g. scutching cotton (scutching flax or like fibres D01B; making cellulose wadding in paper-making machines D21F 11/00)	23/00	<b>Feeding fibres to machines; Conveying fibres between machines</b> (D01G 21/00 takes precedence; intermediate feeds in carding machines D01G 15/00)
11/00	Disintegrating fibre-containing articles to obtain fibres for re-use (mechanical treatment for paper-making D21B)	25/00	<b>Lap-forming devices not integral with machines specified above</b> (forming mats or batts of continuous filaments for non-woven fabrics D04H)
13/00	Mixing, e.g. blending, fibres; Mixing non-fibrous materials with fibres (mixing of fibres combined with other operations, e.g. bale-breaking or fibre-opening, see	27/00	Lap- or sliver-winding devices, e.g. for products of cotton scutchers, jute cards, or worsted gill boxes
	the appropriate groups for such operations)	29/00	Arrangements for lubricating fibres, e.g. in gill boxes (processes involving the use of particular lubricants
15/00	Carding machines or accessories; Card clothing;		D06M 15/00)
	Burr-crushing or removing arrangements associated with carding or other preliminary-treatment machines (de-burring apparatus or machines operating independently D01B)	31/00	Warning or safety devices, e.g. automatic fault detectors, stop motions (safety devices of general application F16P; indicating devices of general application G08B)
17/00	Silk-dressing machines	22/00	Hand tools for treatment of Chang
19/00	Combing machines	33/00	Hand tools for treatment of fibres
		35/00	Treatment of oakum
21/00	Combinations of machines, apparatus, or processes, e.g. for continuous processing (D01G 1/00, D01G 9/00, D01G 15/00 take precedence)	37/00	Other preliminary treatment of fibres

D01H SPINNING OR TWISTING (unwinding, paying-out, forwarding, winding, or coiling filamentary material, not intimately associated with spinning or twisting, B65H; cores, formers, supports, or holders for coiled or wound material, e.g. bobbins, B65H; twisting oakum D01G 35/00; crimping or curling of fibres, filaments, or yarns D02G 1/00; making chenille D03D, D04D 3/00; testing yarns, rovings, slivers, fibres, or fibre webs G01)

#### **Note**

Attention is drawn to the Note following the title of class D01.

#### **Subclass Index**

SPINNING OR TWISTING MACHINES	COMMON STRUCTURAL FEATURES,
With continuous wind-up; with	DETAILS, OR ACCESSORIES
intermittent wind-up	Replacing bobbins; confining or
Open-end spinning4/00	removing dust or fly9/00; 11/00
Drafting machines or arrangements5/00	Other structural features, details, or
Spinning or twisting arrangements7/00	accessories
	Piecing arrangements; hand tools15/00; 17/00

# Kinds or types of spinning or twisting machines; <u>Drafting machines</u> or arrangements; <u>Twisting arrangements</u>

- 1/00 Spinning or twisting machines in which the product is wound-up continuously (open-end spinning machines D01H 4/00) [5]
- 3/00 Spinning or twisting machines in which the product is wound-up intermittently, e.g. mules

4/00 Open-end spinning machines or arrangements for imparting twist to independently moving fibres separated from slivers; Piecing arrangements therefor; Covering endless core threads with fibres by open-end spinning techniques [5]

#### **Note**

In this group, the expression "open-end spinning" covers such expressions as "break spinning", "ringless spinning", "rotor spinning" and "friction spinning", but does not cover the expression "spinning by false-twisting". [5]

5/00 Drafting machines or arrangements (arrangements in which draft is dependent on linear movement of take-up spindles, e.g. in mules, D01H 3/00; devices for combing or orienting fibres for open-end spinning machines D01H 4/00; traversing arrangements for roving guides or guides for slivers, rovings, or yarns applicable solely for spinning, twisting, curling or crimping purposes D01H 13/00)

**7/00** Spinning or twisting arrangements (for open-end spinning D01H 4/00) [5]

7/02 . for imparting permanent twist

7/52 . . Ring-and-traveller arrangements

# Common features or details of, or accessories for, spinning or twisting machines of various kinds or types

- 9/00 Arrangements for replacing or removing bobbins, cores, receptacles, or completed packages at payingout or take-up stations (arrangements of general interest in the winding of filamentary material B65H)
- 9/02 for removing completed take-up packages and replacing by bobbins, cores, or receptacles at take-up stations; Transferring material between adjacent full and empty take-up elements
- 11/00 Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/00; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16) [5]

13/00 Other common constructional features, details, or accessories (for open-end spinning D01H 4/00) [5]

13/14 . Warning or safety devices, e.g. automatic fault detectors, stop motions (warning or safety devices for filamentary material, not intimately associated with spinning or like machines B65H; safety devices of general application F16P; indicating devices of general application G08B)

**15/00 Piecing arrangements** (for open-end spinning machines D01H 4/00; in machines for producing textile fabrics, see the appropriate subclasses) [5]

15/007 . for two-for-one twisting machines [5]

17/00 Hand tools (cop-tube applying apparatus D01H 9/02)

#### D02 YARNS; MECHANICAL FINISHING OF YARNS OR ROPES; WARPING OR BEAMING

#### **Note**

In this class, the following terms are used with the meanings indicated:

- "fibre" means a relatively-short, elongated member of natural or artificial material;
- "filament" means an endless or quasi-endless, elongated member of natural or artificial material;
- "yarn" means a unitary assembly of fibres, usually produced by spinning;
- "thread" means an assembly of yarns or filaments, usually produced by twisting.

#### D02G CRIMPING OR CURLING FIBRES, FILAMENTS, YARNS, OR THREADS; YARNS OR THREADS

#### **Note**

Attention is drawn to the Note following the title of class D02.

1/00	Producing crimped or curled fibres, filaments, yarns, or threads, giving them latent characteristics (yarns	<ul> <li>3/04 Blended or other yarns or threads containing components made from different materials</li> </ul>
	per se D02G 3/00; during formation of artificial	3/12 Threads containing metallic filaments or strips
	filaments, threads, or the like D01D 5/00; general aspects of chemical treatment D06M)	3/22 . Yarns or threads characterised by constructional features
1/02	<ul> <li>by twisting, fixing the twist and backtwisting, i.e. by imparting false twist</li> </ul>	3/24 Bulked yarns or threads, e.g. formed from staple fibre components with different relaxation
1/04	Devices for imparting false twist	characteristics
1/10	<ul> <li>using knife edges, e.g. heated knife edges, for edge crimping</li> </ul>	<ul> <li>3/26 . with characteristics dependent on the amount or direction of twist</li> </ul>
1/12	<ul> <li>using stuffer boxes</li> </ul>	3/34 Yarns or threads having slubs, knops, spirals,
1/14	<ul> <li>using grooved rollers or gear-wheel-type members</li> </ul>	loops, tufts, or other irregular or decorative
1/16	. using jets or streams of turbulent gases, e.g. air,	effects, i.e. effect yarns
	steam	3/36 Cored or coated yarns or threads (elastic yarns or
1/18	<ul> <li>by combining fibres, filaments, or yarns, having</li> </ul>	threads D02G 3/22)
	different shrinkage characteristics	3/38 Threads in which fibres, filaments, or yarns are
1/20	<ul> <li>Combinations of two or more of the above-mentioned operations or devices; After-treatments for fixing crimp or curl</li> </ul>	wound with other yarns or filaments (covering endless core threads with fibres by using open-end spinning techniques D01H 4/00)
		3/44 . Yarns or threads characterised by the purpose for
3/00	Yarns or threads, e.g. fancy yarns; Processes or	which they are designed
	apparatus for the production thereof, not otherwise provided for (for producing crimped or curled yarns D02G 1/00)	3/48 Tyre cords
3/02	Yarns or threads characterised by the material or by the materials from which they are made	

## D02H WARPING, BEAMING, OR LEASING

#### **Note**

Attention is drawn to the Note following the title of class D02.

### **Subclass Index**

BEAMIN	G COMBINED3/00; 5/00; 7/00	DETAIL	S OF MACHINES13/0	0
1/00	Creels, i.e. apparatus for supplying a multiplicity of individual threads	5/00 7/00	Beaming machines  Combined warping and beaming machines	

Warping machines

3/00

Details of machines of the other groups of this 9/00 13/00 Leasing subclass 11/00 Methods or apparatus not provided for in groups D02H 1/00 to D02H 9/00, e.g. for cleaning the warp D<sub>0</sub>2J FINISHING OR DRESSING OF FILAMENTS, YARNS, THREADS, CORDS, ROPES, OR THE LIKE (curling or crimping D02G; by treatment with liquids, gases or vapours D06B; finishing other than by liquid treatment, of yarns in warp or sheet form D06C; for chemical matters, see D06L, D06M, D06P, D06Q; treatment during rope-making, apparatus for treating ropes auxiliary to rope-making D07B) **Note** Attention is drawn to the Note following the title of class D02. **Subclass Index** MODIFYING THE STRUCTURE, FORM. COMBINATIONS OF ABOVE PROCESSES NOT COVERED BY ONE SINGLE GROUP ......11/00 REMOVING UNDESIRABLE BODIES.......7/00 HEATING OR COOLING OPERATIONS NOT SPECIFIC TO ONE OF THE ABOVE PROCESSES ......13/00 Modifying the structure or properties resulting from 1/00 11/00 Combinations, not covered by any one of groups a particular structure; Modifying, retaining, or D02J 1/00 to D02J 7/00, of processes provided for in restoring the physical form or cross-sectional shape, such groups; Plant for carrying-out such e.g. by use of dies or squeeze rollers (modifying only combinations of processes the surface D02J 3/00; by crimping, by curling D02G) 13/00 Heating or cooling the yarn, thread, cord, rope, or 1/22 . Stretching or tensioning, shrinking or relaxing, the like, not specific to any one of the processes e.g. by use of overfeed and underfeed apparatus, or provided for in this subclass (heating, cooling, or preventing stretch (stretch spinning D01D 5/12) drying during spinning or twisting D01H; drying of yarns, or the like, in general F26B) 3/00 Modifying the surface

7/00

Cleaning, e.g. removing dust, loose fibres, charred ends (in combination with the shearing, singeing, or otherwise removing of projecting fibre ends D02J 3/00)

#### D03 WEAVING

#### D03C SHEDDING MECHANISMS; PATTERN CARDS OR CHAINS; PUNCHING OF CARDS; DESIGNING PATTERNS

#### **Subclass Index**

SHEDDING MECHANISMS			Other shedding mechanisms7/00, 13/00		
	Dobbies; jacquards; cam and other direct-acting mechanisms		PATTERN CARDS OR CHAINS; CARD- PUNCHING; METHODS OR DEVICES FOR PREPARING PATTERNS15/00; 17/00;		
	Healds		19/00		
	part of shedding meenanishis1700				
1/00	Dobbies	11/00	Selvedge shedding mechanisms not forming part of		
3/00	<b>Jacquards</b> (controlling jacquard by scanning design D03C 17/00; for gripper Axminster looms D03D 39/00)		main shedding mechanism (selvedge jacquards D03C 3/00; leno selvedge mechanism D03C 7/00)		
5/00	Cam or other direct-acting shedding mechanisms, i.e. operating heald frames without intervening power-supplying devices	13/00	Shedding mechanisms not otherwise provided for		
		15/00	Pattern cards or chains		
7/00	Leno or similar shedding mechanisms	17/00	<b>Card-punching apparatus</b> (marking record carriers in digital fashion G06K)		
9/00	<b>Healds</b> ; <b>Heald frames</b> (for leno shedding D03C 7/00)	19/00	Methods or devices concerned with designing or making patterns, not provided for in other groups of this subclass		

#### D03D WOVEN FABRICS; METHODS OF WEAVING; LOOMS

Selvedges ...... 5/00, 47/00

#### **Notes**

- (1) Class D06 takes precedence over this subclass in respect of processes involving both weaving and finishing steps and in respect of the finished fabrics.
- (2) A method of weaving is classified in the group designating the fabric woven unless the method is characterised by the operation of a particular loom rather than by the production of a particular fabric. In this case, the method is classified in the group for the loom.
- (3) In this subclass, if there is any doubt as to which of the essential features is the most important (this is usually the most restrictive feature), the groups designating woven fabrics should be considered in the order in which they appear at each level of indentation, except that groups designating woven pile fabrics are to be considered as taking precedence over groups designating other woven fabrics.

Subclass Index	
WOVEN FABRICS OR CORRESPONDING	General weaving methods not
WEAVING METHODS	special to a particular fabric or loom
Characterised by: the construction	LOOMS OR CORRESPONDING METHODS
of the yarn or the material; their	OF WEAVING
shape; their resiliency; their	Hand looms
elasticity	Characterised by the article to be woven: lappet or swivel type for
Kinds of woven fabrics	embroidery-like decoration; for
open-work fabrics; woven pile	narrow ribbon-like fabrics; for pile
fabrics; gauze; lappet- or	fabric; other types for other kinds of
swivel-woven9/00; 27/00;	fabrics31/00; 35/00;
19/00; 21/00	39/00; 41/00
with special disposition of	Characterised by their construction:
warp or weft threads; multi-ply	circular; with change-boxes; with
fabrics not otherwise provided	automatic weft replenishment; of
for	shuttleless type37/00; 43/00;
for specified articles1/00	45/00; 47/00
other kinds25/00	Multiple looms

Driving; starting, stopping the loom......51/00

Woven fabrics; Methods of weaving other than those 25/00 Woven fabrics not otherwise provided for characterised by the operation of a particular loom 27/00 Woven pile fabrics Woven fabrics designed to make specified articles 1/02 . Inflatable articles Looms; Methods of weaving characterised by the operation of 1/04 . Sack- or bag-like articles particular looms 1/06 . Curtain heading tapes 29/00 Hand looms 1/08 . Ladder tapes (ladder tapes for venetian blinds E06B 9/38) 31/00 Lappet, swivel or other looms for forming embroidery-like decoration on fabrics 3/00 Woven fabrics characterised by their shape 33/00 Multiple looms, i.e. two or more looms assembled 5/00 Selvedges together, whether or not they have mechanisms in common (D03D 35/00 takes precedence) 7/00 Woven fabrics designed to be resilient, i.e. to recover from compressive stress 35/00 Smallware looms, i.e. looms for weaving ribbons or other narrow fabrics (D03D 47/00 takes precedence) 9/00 Open-work fabrics (ladder-tape fabrics D03D 1/08) 37/00 Circular looms (looms for weaving separate fabrics 11/00 Double or multi-ply fabrics not otherwise provided disposed in a circle or polygon D03D 33/00) 39/00 Pile-fabric looms 13/00 Woven fabrics characterised by the special disposition of the warp or weft threads, e.g. with 41/00 Looms not otherwise provided for, e.g. for weaving curved weft threads, with discontinuous warp chenille yarn; Details peculiar to these looms threads, with diagonal warp or weft 43/00 Looms with change-boxes 15/00 Woven fabrics characterised by the material or construction of the yarn or other warp or weft 45/00 Looms with automatic weft replenishment (automatic elements used replenishment in smallware looms D03D 35/00, in 15/02 . the warp or weft elements being of stiff material, circular looms D03D 37/00; bobbins rewound on loom e.g. wire, cane, slat D03J 1/00) 15/04 . woven to produce shapes or effects upon differential 47/00 Looms in which bulk supply of weft does not pass shrinkage through shed, e.g. shuttleless looms, gripper shuttle 15/06 . using scaffolding threads, i.e. threads removed after looms, dummy shuttle looms (circular looms weaving D03D 37/00) 15/08 . using stretchable or elastic threads (woven fabrics 47/28 . wherein the weft itself is projected into the shed whose elastic or stretch properties are due to the . Handling the weft between bulk storage and weft-47/34 manner of weaving D03D 17/00) inserting means 15/10 . using threads having high or low coefficients of . . Measuring and cutting the weft 47/36 15/12 . using heat-resistant or fireproof threads 49/00 Details or constructional features not peculiar to looms of a particular type (temples D03J 1/00) 17/00 Woven fabrics having elastic or stretch properties . Control of the tension in warp or cloth (cutting weft 49/04 due to manner of weaving (fabrics using stretchable or in looms with automatic weft replenishment elastic threads D03D 15/08) D03D 45/00; loose reed stop motion D03D 51/18; 19/00 construction of warp beam D02H) Gauze or leno-woven fabrics 51/00 Driving, starting, or stopping arrangements; 21/00 Lappet- or swivel-woven fabrics **Automatic stop motions** 23/00 General weaving methods not special to the . Automatic stop motions 51/18 production of any particular woven fabric or the use of any particular loom; Weaves not provided for in any other single group D03JAUXILIARY WEAVING APPARATUS; WEAVERS' TOOLS; SHUTTLES Auxiliary apparatus combined with or associated Shuttles (swivel shuttles D03D 31/00; shuttles for 1/00 5/00 with looms (cutting pile on the loom D03D 39/00) smallware looms D03D 35/00; circular loom shuttles D03D 37/00; selvedge shuttles D03D 47/00) 3/00 Weavers' tools, e.g. knot-tying tools

General details and constructional

#### D04 BRAIDING; LACE-MAKING; KNITTING; TRIMMINGS; NON-WOVEN FABRICS

#### D04B KNITTING

#### **Notes**

- (1) In this subclass, groups designating machines, apparatus, devices, or implements include processes characterised by, or dependent on, their use, and the products of such processes.
- (2) Knitted products, i.e. fabrics, articles, are classified in this subclass only if they have constructional features which are of interest from the knitting aspect.

#### **Subclass Index**

WEFT KNITTING AND MACHINES THEREFOR	WARP KNITTING AND MACHINES THEREFOR
General processes or knitted articles	General processes and knitted articles
Flat-bed knitting machines: with independently-movable needles; with fixed needles	details or auxiliary devices incorporated in the machines
with independently-movable needles; with fixed spring or bearded needles	THEREFOR Processes; tools or implements

#### Weft knitting; Machines therefor

1/14

- 1/00 Weft knitting processes for the production of fabrics or articles not dependent on the use of particular machines; Fabrics or articles defined by such processes
- 1/02 . Pile fabrics or articles having similar surface features
- 1/06 . Non-run fabrics or articles
- 1/10 . Patterned fabrics or articles
  - Other fabrics or articles characterised primarily by the use of particular thread materials
- 1/22 specially adapted for knitting goods of particular configuration
- 3/00 Hand tools or implements for weft knitting
- 5/00 Weft knitting apparatus or machines without needles for domestic use (with needles D04B 7/00)
- 7/00 Flat-bed knitting machines with independentlymovable needles (straight-bar machines with fixed needles D04B 11/00)
- 9/00 Circular weft knitting machines with independentlymovable needles (with fixed spring or bearded needles D04B 13/00)
- 11/00 Straight-bar knitting machines with fixed needles (flat-bed machines with independently-movable needles D04B 7/00)
- 13/00 Circular weft knitting machines with fixed spring or bearded needles, e.g. loop-wheel machines (with independently-movable needles D04B 9/00)

15/00 Details of, or auxiliary devices incorporated in, weft knitting machines, restricted to machines of this kind (details or auxiliary devices not so restricted D04B 35/00)

NOT OTHERWISE PROVIDED FOR......39/00

- 15/38 Devices for supplying, feeding, or guiding threads to needles
- 15/66 Devices for determining or controlling patterns

#### Repairing or unravelling knitted fabrics

PROCESSES AND KNITTING MACHINES

- 17/00 Repairing knitted fabrics by knitting operations
- 19/00 Unravelling knitted fabrics

#### Warp knitting; Machines therefor

- 21/00 Warp knitting processes for the production of fabrics or articles not dependent on the use of particular machines; Fabrics or articles defined by such processes
- 21/14 . Fabrics characterised by the incorporation by knitting, in one or more thread, fleece, or fabric layers, of reinforcing, binding, or decorative threads; Fabrics incorporating small auxiliary elements, e.g. for decorative purposes (pile fabrics D04B 21/00; non-woven fabrics in general D04H)
- 23/00 Flat warp knitting machines
- 25/00 Warp knitting machines not otherwise provided for

27/00	Details of, or auxiliary devices incorporated in, warp knitting machines, restricted to machines of this kind (details or auxiliary devices not so restricted	33/00	Crocheting tools or apparatus (galloon crocheting machines for warp knitting D04B 25/00)
Cuachati	D04B 35/00)	35/00	Details of, or auxiliary devices incorporated in, knitting machines, not otherwise provided for
31/00	ing; Apparatus therefor  Crocheting processes for the production of fabrics or articles	37/00	Auxiliary apparatus or devices for use with knitting machines (Jacquard cards, pattern chains, apparatus for punching same D03C)
		39/00	Knitting processes, apparatus or machines, not otherwise provided for
D04C	BRAIDING OR MANUFACTURE OF LACE, INCL MACHINES; BRAID; LACE (machines for making soles for making soles)		
1/00	Braid or lace, e.g. pillow-lace; Processes for the	3/00	Braiding or lacing machines
	manufacture thereof	5/00	<b>Twist or bobbin-net lace-making machines</b> (bobbins B65H 75/02)
		7/00	Tools or apparatus for braiding or lacing by hand
D04D	TRIMMINGS; RIBBONS, TAPES, OR BANDS, NOT O' bands, A42C 5/00; decorating art B44; yarns or threads D02C Note  In this subclass, the following term is used with the meaning "trimmings" means decerating or or propagatel articles may be a subclass.	G; weaving D indicated:	03; braid or lace D04C; non-woven fabrics D04H)
	Note  In this subclass, the following term is used with the meaning  "trimmings" means decorative or ornamental articles may or analogous material intended to be used for decorative	G; weaving D indicated: de wholly or or ornamenta	partly of textile or analogous material, or strips of textile l purposes, not otherwise provided for.
D04D 1/00	Note  In this subclass, the following term is used with the meaning  "trimmings" means decorative or ornamental articles may or analogous material intended to be used for decorative.  Ropes or like decorative or ornamental elongated trimmings made from filamentary material (ropes or	G; weaving D indicated: de wholly or j	partly of textile or analogous material, or strips of textile l purposes, not otherwise provided for.  Decorative or ornamental textile articles
	Note  In this subclass, the following term is used with the meaning  "trimmings" means decorative or ornamental articles may or analogous material intended to be used for decorative.  Ropes or like decorative or ornamental elongated	indicated: de wholly or jor ornamenta	partly of textile or analogous material, or strips of textile l purposes, not otherwise provided for.  Decorative or ornamental textile articles  Ribbons, tapes, welts, bands, beadings, or other decorative or ornamental strips, not otherwise provided for (made by laminating B32B; binders for packaging purposes B65D; adhesive tape C09J 7/02;
1/00	Note  In this subclass, the following term is used with the meaning — "trimmings" means decorative or ornamental articles may or analogous material intended to be used for decorative or ornamental elongated trimmings made from filamentary material (ropes or cords in general D07B)  Chenille trimmings (chenille yarns D02G; making	indicated: de wholly or jor ornamenta	partly of textile or analogous material, or strips of textile l purposes, not otherwise provided for.  Decorative or ornamental textile articles  Ribbons, tapes, welts, bands, beadings, or other decorative or ornamental strips, not otherwise provided for (made by laminating B32B; binders for
1/00	Note  In this subclass, the following term is used with the meaning  "trimmings" means decorative or ornamental articles may or analogous material intended to be used for decorative or  Ropes or like decorative or ornamental elongated trimmings made from filamentary material (ropes or cords in general D07B)  Chenille trimmings (chenille yarns D02G; making chenille trimmings by weaving D03D)	indicated: de wholly or por ornamenta  7/00  9/00  11/00  MATERIAL inding knotte ling or unwin	partly of textile or analogous material, or strips of textile l purposes, not otherwise provided for.  Decorative or ornamental textile articles  Ribbons, tapes, welts, bands, beadings, or other decorative or ornamental strips, not otherwise provided for (made by laminating B32B; binders for packaging purposes B65D; adhesive tape C09J 7/02; made by weaving D03; made by braiding D04C)  Ribbon-threading apparatus or devices (needles D05B)  ; MAKING KNOTTED CARPETS OR TAPESTRIES; ers for harvesters A01D 59/00; wire netting B21F; tying
1/00 3/00 5/00	Note  In this subclass, the following term is used with the meaning  "trimmings" means decorative or ornamental articles may or analogous material intended to be used for decorative or  Ropes or like decorative or ornamental elongated trimmings made from filamentary material (ropes or cords in general D07B)  Chenille trimmings (chenille yarns D02G; making chenille trimmings by weaving D03D)  Fringes (tasselled D04D 7/00)  MAKING NETS BY KNOTTING OF FILAMENTARY I KNOTTING NOT OTHERWISE PROVIDED FOR (b articles by knotting B65B; knotting in association with wind	indicated: de wholly or por ornamenta  7/00  9/00  11/00  MATERIAL inding knotte ling or unwin	partly of textile or analogous material, or strips of textile l purposes, not otherwise provided for.  Decorative or ornamental textile articles  Ribbons, tapes, welts, bands, beadings, or other decorative or ornamental strips, not otherwise provided for (made by laminating B32B; binders for packaging purposes B65D; adhesive tape C09J 7/02; made by weaving D03; made by braiding D04C)  Ribbon-threading apparatus or devices (needles D05B)  ; MAKING KNOTTED CARPETS OR TAPESTRIES; ers for harvesters A01D 59/00; wire netting B21F; tying
1/00 3/00 5/00 D04G	Note  In this subclass, the following term is used with the meaning — "trimmings" means decorative or ornamental articles may or analogous material intended to be used for decorative or ornamental elongated trimmings made from filamentary material (ropes or cords in general D07B)  Chenille trimmings (chenille yarns D02G; making chenille trimmings by weaving D03D)  Fringes (tasselled D04D 7/00)  MAKING NETS BY KNOTTING OF FILAMENTARY KNOTTING NOT OTHERWISE PROVIDED FOR (b articles by knotting B65B; knotting in association with wind carpets, or tapestries by other techniques, see the relevant subspace of the subclassical strengths of the relevant subspace of the re	indicated: de wholly or por ornamenta  7/00  9/00  11/00  MATERIAL inding knotte ling or unwin	partly of textile or analogous material, or strips of textile l purposes, not otherwise provided for.  Decorative or ornamental textile articles  Ribbons, tapes, welts, bands, beadings, or other decorative or ornamental strips, not otherwise provided for (made by laminating B32B; binders for packaging purposes B65D; adhesive tape C09J 7/02; made by weaving D03; made by braiding D04C)  Ribbon-threading apparatus or devices (needles D05B)  ; MAKING KNOTTED CARPETS OR TAPESTRIES; ers for harvesters A01D 59/00; wire netting B21F; tying

D04H MAKING TEXTILE FABRICS, E.G. FROM FIBRES OR FILAMENTARY MATERIAL (weaving D03; knitting D04B; braiding D04C; net-making D04G; sewing D05B; tufting D05C; finishing non-woven fabrics D06); FABRICS MADE BY SUCH PROCESSES OR APPARATUS, E.G. FELTS, NON-WOVEN FABRICS; COTTON-WOOL; WADDING (non-woven fabrics having an intermediate or external layer of a different kind, e.g. of woven fabric, B32B)

#### **Notes**

- (1) In this subclass, the following expression is used with the meaning indicated:
  - "non-woven fabrics" means fabrics formed wholly or partly of textile material by processes comprising operations other than the weaving, knitting, braiding, lacing, or knotting of yarns, threads, or filaments for which provision is made in other subclasses of section D. This expression includes felts, cotton-wool and wadding.
- (2) In this subclass:
  - some of the non-woven fabrics can also be regarded as "layered products" within the meaning of subclass B32B, and further classification in that subclass should be considered in accordance with the notes thereto;
  - in cases where the making of non-woven fabrics involves the use of particular chemical compounds or compositions, e.g. for treating or bonding fibres, filaments, or yarns, further classification in other appropriate subclasses should also be considered.
- By varying the proportions of fibres or threads, and the chemical compounds or compositions, the final products may be given the appearance of paper, cardboard, leather, or the like.

#### **Subclass Index**

	types of non-woven fabrics; Apparatus or processes	1/64	the bonding agent being applied in wet state, e.g. chemical agents in dispersions or solutions
1/00 1/40	Non-woven fabrics formed wholly or mainly of staple fibres or like relatively short fibres	1/70	<ul> <li>characterised by the method of forming fleeces or layers, e.g. reorientation of fibres (lap-forming devices D01G 25/00; paper web-making by wet</li> </ul>
1/40	<ul> <li>from fleeces or layers composed of fibres without existing or potential cohesive properties</li> </ul>		methods D21F, D21H) [4]
1/42	<ul> <li>characterised by the use of certain kinds of fibres insofar as this use has no preponderant influence</li> </ul>	3/00	Non-woven fabrics formed wholly or mainly of yarns or like filamentary material of substantial length
1/44	on the consolidation of the fleece  the fleeces or layers being consolidated by mechanical means, e.g. by rolling	3/02	• characterised by the method of forming fleeces or layers, e.g. reorientation of yarns or filaments (lapforming devices D01G 25/00; paper web-making by
1/45	<ul> <li>by forming intermeshing loops or stitches from some of the fibres (knitting D04B; sewing D05B) [4]</li> </ul>	3/08	wet methods D21F, D21H) [4]  characterised by the method of strengthening or consolidating
1/46	• by needling or like operations to cause entanglement of fibres (D04H 1/45 takes	3/14	with bonds between thermoplastic yarns or filaments produced by welding
	precedence; needling machines D04H 18/00) [4]	3/16	with bonds between thermoplastic filaments produced in association with filament
1/48	method of consolidation, e.g. with		formation, e.g. immediately following extrusion [4]
1/54	<ul> <li>application of bonding agents</li> <li>by welding together the fibres, e.g. by partially melting or dissolving (in combination with needling D04H 1/48)</li> </ul>	5/00	Non-woven fabrics formed of mixtures of relatively- short fibres and yarns or like filamentary material of substantial length
1/56	in association with fibre formation, e.g. immediately following extrusion of staple fibres	11/00	<b>Non-woven pile fabrics</b> (layered products forming non-woven pile fabrics B32B; woven pile fabrics D03D; tufting D05C)
1/58	<ul> <li>by applying, incorporating, or activating chemical or thermoplastic bonding agents, e.g. adhesives (in combination with needling D04H 1/48)</li> </ul>	13/00	Other non-woven fabrics
	·	17/00	Felting apparatus

18/00

**Needling machines** 

## D05 SEWING; EMBROIDERING; TUFTING

**D05B SEWING** (appliances for the tailoring trade A41H; sewing tables A47B 29/00; sewing in bookbinding B42B 2/00; sewing machines modified for knitting D04B 39/00)

#### Note

In this subclass, the groups designating sewing apparatus or machines <u>cover</u> also sewing processes dependent on their use, and the thread seams produced thereby.

TYPES OF MACHI	NES		measuring length of thread
	types for making thread		used; regulating tension;
	thout lateral movement		severing thread
Special-r	purpose or automatic		65/00
machines	•		take-up, needle-thread guard,
	lateral movement of		break detectors, thread laying;
need	lle or work		needle holders
	sewing quilts or mattresses,		
sack	s, leather goods 11/00, 13/00,		Lower thread
	15/00		loop takers; loop manipulators;
	emporarily connecting		tension; severing thread
	eles		bobbin winding or changing59/00
	ing machines; hem-stitch		
mac	hines; for making thread		Lubricating, waxing, or colouring thread67/00
and	welded seams7/00; 9/00; 17/00	ОТЦЕР	ELEMENTS OF SEWING
			NES; ACCESSORIES
	gramme-controlled	1,111101111	Driving or control; lubricating or
	bes of sewing machines		cooling; lighting equipment
	tion of machines;		79/00
	s incorporating devices for poses than sewing25/00; 81/00		Accessories
			guards for operator83/00
THE WORK; MACI			casings; frames or tables;
			covers or portable enclosures
	ng, pressing, holding, g, or removing the work27/00, 29/00,		77/00
supprym	31/00, 33/00	HAND S	EWING
Devices	for slitting, grooving, or		Tools and accessories; stitches or
cutting th	ne work		stitch seams91/00; 93/00
Work-pie	ece carriers, work-		Preparatory or finishing operations95/00
collecting	g devices		Hand-sewing processes and
Other ele	ements relating to the work		apparatus for other special work, or
SEWING-THREAD	; MACHINE ELEMENTS		not otherwise provided for97/00
RELATING THERE	ETO		ES; NEEDLE-THREADING
Needle th	nread	DEVICE	S; SEAM-RIPPING85/00; 87/00;
spoo	ol-pin assemblies		89/00
	types of sewing apparatus or machines	5/00	Sewing machines for temporarily connecting articles,
	mechanism for lateral movement of the r the work or both		e.g. pairs of socks
~		7/00	Linking machines, e.g. for joining knitted fabrics
	automatic sewing apparatus or machines	9/00	Hem-stitch sewing machines
lateral n for maki buttonho	apparatus or machines with mechanism for novement of the needle or the work or both ing ornamental pattern seams, for sewing ples, for reinforcing openings, or for g articles, e.g. buttons, by sewing	11/00	Machines for sewing quilts or mattresses (control of workpiece-holding frames, or of sewing machines, in order to obtain particular seam configuration D05B 21/00)
	ime-controlled sewing machines D05B 19/00;	13/00	Machines for sewing sacks
with devi	ices for automatically controlling movement of	15/00	Machines for sewing leather goods (making pseudo-
	rier D05B 21/00) [6] nechanisms for needle-bar movement	13/00	lock-stitch seams D05B 1/00)

17/00	Sewing machines for concurrently making thread and welded seams (for making non-welded fluid-tight seams D05B 1/00)	51/00	Applications of needle-thread guards in sewing machines; Thread-break detectors for sewing machines (for embroidery machines D05C 11/00)
19/00	<b>Programme-controlled sewing machines</b> (with devices for automatically controlling movement of work-carrier	53/00	Thread- or cord-laying mechanisms for sewing machines; Thread fingers for sewing machines
	D05B 21/00; devices for stopping drive when sewing tools have reached a predetermined position D05B 69/22)	55/00	Needle holders for sewing machines; Needle bars for sewing machines (needles $D05B\ 85/00$ )
21/00	Sewing machines with devices for automatically	57/00	Loop takers, e.g. loopers, for sewing machines
	controlling movement of work-carrier relative to stitch-forming mechanism in order to obtain particular configuration of seam, e.g. programme- controlled for sewing collars, for attaching pockets	59/00	Applications of bobbin-winding or -changing devices in sewing machines; Indicating or control devices associated therewith
23/00	Sewing apparatus or machines not otherwise provided for (for making zip closures A44B 19/00)	61/00	Loop holders; Loop spreaders for sewing machines; Stitch-forming fingers for sewing machines
25/00	Sewing units consisting of combinations of several	63/00	Devices associated with the loop-taker thread of sewing machines, e.g. for tensioning
C	sewing machines	65/00	Devices for severing the needle or lower thread in sewing machines
treating t		67/00	Devices incorporated in sewing machines for lubricating, waxing, or colouring the threads
27/00	Work-feeding means for sewing machines	Driving.	gear, control, lubricating, or cooling devices for sewing
29/00	Pressers or presser feet for sewing machines (for feeding D05B 27/00)	machines	
31/00	Workpiece holders or hold-downs in machines for sewing leather	<b>69/00</b> 69/14	<ul> <li>Driving-gear or control devices for sewing machines</li> <li>Devices for changing speed or for reversing direction of rotation</li> </ul>
33/00	Devices incorporated in sewing machines for supplying or removing the work	69/22	<ul> <li>Devices for stopping drive when sewing tools have reached a predetermined position (electric motor control systems in general H02P)</li> </ul>
<b>35/00</b> 35/02	Work-feeding or work-handling elements for sewing machines, not otherwise provided for . for facilitating seaming; Hem-turning elements;	71/00	Lubricating or cooling devices for sewing machines
35/06	Hemmers	Casings,	supports, covers, or accessories for sewing machines;
33/00	<ul> <li>for attaching bands, ribbons, strips, or tapes or for binding</li> </ul>	Sewing machines combined with auxiliary devices servin purposes other than sewing	
37/00	Devices incorporated in sewing machines for slitting, grooving, or cutting (severing sewing-threads	73/00	Casings for sewing machines
39/00	D05B 65/00)  Workpiece carriers for sewing machines (for	75/00	Frames, stands, tables, or other furniture adapted to carry sewing machines (furniture aspects A47B, A47C)
37700	automatically controlling movement of work-carrier to	77/00	Covers, or portable enclosures, for sewing machines
	obtain particular configuration of seam D05B 21/00; in general A41H 15/00)	79/00	Incorporations or adaptations of lighting equipment for sewing machines
41/00	Work-collecting devices for sewing machines	81/00	Sewing machines incorporating devices serving
Sewing-n thread m	nachine elements for supplying, handling, or treating aterial		purposes other than sewing, e.g. for blowing air, for grinding
43/00	Spool-pin assemblies incorporated in sewing machines	83/00	Guards or like devices for preventing injury to operator of sewing machines (machine safety devices in general F16P)
45/00	Applications of measuring devices for determining the length of threads used in sewing machines	Needles;	Needle threaders; Seam-ripping devices
	(measuring devices in embroidery machines D05C, in general G01B)	85/00	<b>Needles</b> (surgical needles A61B 17/06; manufacture of needles B21G 1/00)
47/00	Needle-thread tensioning devices for sewing machines; Applications of tensometers in sewing	87/00	Needle-threading devices
	machines	89/00	Seam-ripping devices
49/00	Take-up devices, e.g. levers, for the needle thread of sewing machines		

Hand sev	wing	93/00	Stitches; Stitch seams for hand sewing
91/00	Tools, implements, or accessories for hand sewing (needles, needle threaders D05B 85/00, D05B 87/00;	95/00	Preparatory or finishing operations in connection with hand sewing
	appliances for the tailoring trade A41H)	97/00	Hand sewing processes or apparatus for special work or not otherwise provided for
D05C	EMBROIDERING (programme-controlled sewing machine (making non-woven fabrics D04H; sewing D05B)	es with embro	pidering capability D05B 19/00, D05B 21/00); TUFTING
Subclass	<u>Index</u>		
	MBROIDERY 1/00 IDERING MACHINES		Details
	General types of machines		Auxiliary devices
	Machines with automatic control or		G PILE FABRICS BY INSERTING
	for special kinds of embroidery5/00, 7/00		
1/00 Embroid	Apparatus, devices, or tools for hand embroidering	13/00	Auxiliary devices incorporated in embroidering machines, not otherwise provided for; Ancillary apparatus for use with embroidering machines
3/00	General types of embroidering machines	15/00	Making pile fabrics or articles having similar surface
5/00	Embroidering machines with arrangements for automatic control of a series of individual steps		features by inserting loops into a base material (layered products B32B; non-woven pile fabrics D04H 11/00)
7/00	Special-purpose or automatic embroidering machines	17/00	Embroidered or tufted products; Base fabrics specially adapted for embroidered work; Inserts for
9/00	Appliances for holding or feeding the base fabric in embroidering machines		producing surface irregularities in embroidered products (layered products B32B; non-woven pile fabrics D04H 11/00)
11/00	Devices for guiding, feeding, handling, or treating the threads in embroidering machines; Machine needles; Operating or control mechanisms therefor		Tauries 200411 11/00)

# D06 TREATMENT OF TEXTILES OR THE LIKE; LAUNDERING; FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D06B TREATING TEXTILE MATERIALS BY LIQUIDS, GASES, OR VAPOURS (applying liquids to surfaces in general B05; conveying in general, handling webs or filaments in general B65; treating leather C14C; mechanical removal of impurities from animal fibres D01B; laundering D06F; chemical matters, see D06L to D06Q) [2]

#### **Note**

In this subclass, the following terms or expressions are used with the meaning indicated:

- "fabric" includes yarns in warp or sheet form; [2]
- "textile material" includes fabrics, yarns or other fibrous materials; [2]
- "indefinite length" means an extent of material having the characteristic that the longitudinal dimension is effectively infinite in so far as the procedure for advancing or moving the material is concerned. [3]

#### **Subclass Index**

FLUID T	REATMENT Applying to the surface of, or forcing through, material	REMOV	Local treating       11/00         Mercerising       7/00         Other treatments       13/00, 17/00, 19/00, 21/00         AL OF TREATING FLUID       15/00
	Solvent-treating9/00	GENER A	AL APPARATUS23/00
1/00	Applying liquids, gases, or vapours on to textile materials to effect treatment, e.g. washing, dyeing,	13/00	Treatment of textile materials with liquids, gases, or vapours with aid of vibration [2]
	bleaching, sizing, impregnating (mercerising D06B 7/00; solvent-treatment D06B 9/00; treatment of selected parts of textile materials D06B 11/00; with aid of vibration D06B 13/00; transfer application of finishing agents D06M 23/00) [4]	15/00	Removing liquids, gases, or vapours from textile materials in association with treatment of the materials by liquids, gases, or vapours (drying F26B) [2]
3/00	Passing of textile materials through liquids, gases, or vapours to effect treatment, e.g. washing, dyeing, bleaching, sizing, impregnating (mercerising D06B 7/00; solvent-treatment D06B 9/00; treatment of	17/00	Storing of textile materials in association with the treatment of the materials by liquids, gases, or vapours (carriers or supports specially adapted therefor D06B 23/00) [2]
5/00	selected parts of textile materials D06B 11/00; with aid of vibration D06B 13/00) [2]	19/00	Treatment of textile materials by liquids, gases, or vapours, not provided for in groups D06B 1/00 to D06B 17/00 [2]
3/00	Forcing liquids, gases, or vapours through textile materials to effect treatment, e.g. washing, dyeing, bleaching, sizing, impregnating (mercerising D06B 7/00; solvent-treatment D06B 9/00; treatment of selected parts of textile materials D06B 11/00; with aid of vibration D06B 13/00) [2]	21/00	Successive treatments of textile materials by liquids, gases, or vapours (successive treatments in which the characteristics of a single treatment are of interest only, or in which all treatments have characteristics provided for in a single main group, see the relevant groups for
7/00	Mercerising, e.g. lustring by mercerising [2]		the single treatment) [2]
9/00	<b>Solvent-treatment of textile materials</b> (dry-cleaning D06F 43/00) [2]	23/00	Component parts, details, or accessories of apparatus or machines, specially adapted for the treating of textile materials, not restricted to a
11/00	Treatment of selected parts of textile materials, e.g. partial dyeing [2]		particular kind of apparatus, provided for in groups D06B 1/00 to D06B 21/00 [2]

D06C FINISHING, DRESSING, TENTERING, OR STRETCHING TEXTILE FABRICS (chemical matters, see D06L to D06Q; drying F26B) [2]

## **Note**

In this subclass, the following term is used with meaning indicated:

- "fabric" includes yarns in warp or sheet form.

#### **Subclass Index**

GENERA	L TREATMENTS		With slight elimination of material	
	Without elimination of material		singeing; teasing or napping;	
	heating or cooling7/00	shearing or cropping9/00; 11		
	stretching or tentering; shaping or stretching; shrinking by compressing	FINISHII	For decoration	
3/00	Stretching, tentering, or spreading textile fabrics; Producing elasticity in textile fabrics (shaping or stretching tubular fabrics upon cores or internal frames D06C 5/00; removing skew or disorientation of weft threads in woven fabrics D06H 3/00)	15/00	Calendering, pressing, ironing, glossing, or glazing textile fabrics (shrinking by compressing D06C 21/00; for making patterns or designs D06C 23/00; domestic, laundry, or like ironing or pressing D06F)	
	threads in woven fabrics Doorf 3/00)	17/00	Fulling	
5/00	Shaping or stretching of tubular fabrics upon cores or internal frames (supports simply for drying D06F 59/00)	19/00	<b>Breaking or softening of fabrics</b> (by stretching D06C 3/00; by calendering, pressing, or beetling D06C 15/00; by fulling D06C 17/00)	
7/00	Heating or cooling textile fabrics (hosiery boarding D06C 5/00; singeing D06C 9/00; treating with liquids, gases, or vapours D06B; processes comprising	21/00	Shrinking by compressing	
	combined chemical and mechanical treatment D06M; during operations provided for elsewhere, see the	23/00	<b>Making patterns or design on fabrics</b> (by printing B41F; decoration in general B44)	
9/00	relevant groups for such operations)  Singeing (for making patterns or designs D06C 23/00)	25/00	Treating selvedges or other edges, e.g. stiffening (trimming edges D06C 13/00; forming selvedges on the loom, e.g. by adhesive, D03D 47/00)	
11/00	<b>Teasing, napping, or otherwise roughening or raising pile of textile fabrics</b> (for making patterns or designs D06C 23/00)	27/00	Compound processes or apparatus, for finishing or dressing textile fabrics, not otherwise provided for	
13/00	Shearing, clipping, or cropping surfaces of textile fabrics; Pile cutting; Trimming seamed edges (for making patterns or designs D06C 23/00; cutting pile loops on the loom or splitting double pile fabrics on the loom D03D 39/00; cutting or severing fabrics D06H)	29/00	Finishing or dressing, of textile fabrics, not provided for in the other groups of this subclass	

**D06F LAUNDERING, DRYING, IRONING, PRESSING OR FOLDING TEXTILE ARTICLES** (apparatus for blocking, pressing, steaming, or stretching hats A42C; treating textile materials by liquids, gases or vapors D06B; chemical matters, <u>see</u> D06L, D06M)

#### **Notes**

- (1) This subclass <u>covers</u>:
  - domestic or laundry dry-cleaning apparatus using volatile solvents;
  - domestic, laundry, or tailors' ironing or other hot-pressing of clothes, linen, or other textile articles.
- (2) This subclass <u>does not cover</u> apparatus for wringing, washing, dry-cleaning, ironing, or other hot-pressing of textiles in manufacturing operations, which is covered by subclasses D06B, D06C.

#### Subclass Index

RECEPTACLES; REMOVABLE DEVICES	
FOR USE WITH DIFFERENT	
RECEPTACLES	1/00; 7/00
HAND IMPLEMENTS	5/00
IMPLEMENTS FOR WASHING BY HAND	
Receptacles; hand rubbing	
apparatus	1/00; 3/00
WASHING MACHINES	
using brushes, rollers	. 9/00, 11/00

with stationary receptacle: using agitators; using beating or squeezing means; with agitation of liquid; with additional drying means ............ 13/00; 15/00; 17/00; 18/00

	with moving receptable		Special supports retaining shape of	
	with rotary movement,		articles to be dried5	
	e.g. oscillatory: for washing;		Other drying6	60/00
	for washing and draining; for	IRONIN	G; PRESSING	
	washing and draining with		Ironing	
	additional drying means21/00; 23/00;			
	25/00		by hand:	
	with bodily movements,		Irons; accessories; ironing	
	e.g. reciprocating or swinging27/00		boards	
	using vibrations for washing19/00		79/00; 8	31/00
			by machine:	
	Details of above machines		using rollers; using rollers	
	37/00, 39/00		coacting with table; using	
	Combinations with other apparatus		rollers coacting with	
	or machines		curved surfaces	3/00:
	Control of washing operations33/00			55/00
	Other washing machines or		Details6	7/00
	methods35/00			
RINSING	APPARATUS		Other ironing machines	9/00
			Pressing	
	EANING43/00		Hot or cold pressing;	
	ING WATER FROM LINEN;		smoothing by use of formers	
SMOOTE	HING BY COLD ROLLING		with heat or steam71/00; 7	3/00
	by rollers; by presses		Coverings or pads for equipment,	
	by centrifugal movement of the		elements interposed between article	
	receptacle		and ironing or pressing surface83/00, 8	5/00
	49/00	AUVILI	ARY APPARATUS; LAUNDRY	
	Apparatus not otherwise provided	SYSTEM		
	for51/00	SISIEN		
DDVING			Conditioning; folding; starching;	0./00
DRYING			counting, sorting, marking87/00; 89	
	Clothes-lines; clothes-pegs; other		91/00; 9	3/00
	supporting means		Laundry systems, arrangements of	
	57/00		apparatus or machines9	5/00
	Driers58/00			
Washing;	Rinsing; Dry-cleaning	17/00	Washing machines having receptacles, stationary	for
Washing;	Rinsing; Dry-cleaning Washing receptacles (of washing machines D06F 37/00, D06F 39/00)	17/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used	i
	Washing receptacles (of washing machines	17/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the	i
1/00 3/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)	17/00 18/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)	d 0;
1/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks		washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0	d 0; for
1/00 3/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)		washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary	d 0; for
1/00 3/00 5/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks (hand rubbing appliances D06F 3/00; brushes A46B)	18/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary washing purposes, and having further drying me (details concerning drying only D06F 58/00) [3]	d 0; for
1/00 3/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks (hand rubbing appliances D06F 3/00; brushes A46B)  Washing devices adapted to be used independently of		washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary washing purposes, and having further drying me (details concerning drying only D06F 58/00) [3]  Washing machines using vibrations for washing	d (0; for ans
1/00 3/00 5/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks (hand rubbing appliances D06F 3/00; brushes A46B)  Washing devices adapted to be used independently of any particular receptacle, e.g. for removable	18/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary washing purposes, and having further drying me (details concerning drying only D06F 58/00) [3]  Washing machines using vibrations for washing purposes (devices of the vibrator type adapted to be	d (0; for ans
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1/00 3/00 5/00 7/00 9/00 11/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks (hand rubbing appliances D06F 3/00; brushes A46B)  Washing devices adapted to be used independently of any particular receptacle, e.g. for removable mounting on wash-tubs, bath-tubs, or the like  Brushing-type washing machines  Washing machines using rollers, e.g. of the mangle type  Washing machines having receptacles, stationary for washing purposes, with agitators therein contacting the articles being washed (plungers or the like adapted for removable mounting on receptacles D06F 5/00; washing devices adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines having beating, rubbing, or	18/00 19/00 21/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary washing purposes, and having further drying me (details concerning drying only D06F 58/00) [3]  Washing machines using vibrations for washing purposes (devices of the vibrator type adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory movem (with receptacles serving both for washing and centrifugally draining D06F 23/00, D06F 25/00; wit receptacles moving bodily about an axis D06F 27/00 programme control aspects D06F 33/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory	of for ans  ed, ment  h);
1/00 3/00 5/00 7/00 9/00 11/00 13/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks (hand rubbing appliances D06F 3/00; brushes A46B)  Washing devices adapted to be used independently of any particular receptacle, e.g. for removable mounting on wash-tubs, bath-tubs, or the like  Brushing-type washing machines  Washing machines using rollers, e.g. of the mangle type  Washing machines having receptacles, stationary for washing purposes, with agitators therein contacting the articles being washed (plungers or the like adapted for removable mounting on receptacles D06F 5/00; washing devices adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines having beating, rubbing, or squeezing means in receptacles stationary for	18/00 19/00 21/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary washing purposes, and having further drying me (details concerning drying only D06F 58/00) [3]  Washing machines using vibrations for washing purposes (devices of the vibrator type adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory movem (with receptacles serving both for washing and centrifugally draining D06F 23/00, D06F 25/00; wit receptacles moving bodily about an axis D06F 27/00 programme control aspects D06F 33/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing	ed, nent h);
1/00 3/00 5/00 7/00 9/00 11/00 13/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks (hand rubbing appliances D06F 3/00; brushes A46B)  Washing devices adapted to be used independently of any particular receptacle, e.g. for removable mounting on wash-tubs, bath-tubs, or the like  Brushing-type washing machines  Washing machines using rollers, e.g. of the mangle type  Washing machines having receptacles, stationary for washing purposes, with agitators therein contacting the articles being washed (plungers or the like adapted for removable mounting on receptacles D06F 5/00; washing devices adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines having beating, rubbing, or squeezing means in receptacles stationary for washing purposes (plungers or the like adapted for	18/00 19/00 21/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary washing purposes, and having further drying me (details concerning drying only D06F 58/00) [3]  Washing machines using vibrations for washing purposes (devices of the vibrator type adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory movem (with receptacles serving both for washing and centrifugally draining D06F 23/00, D06F 25/00; wit receptacles moving bodily about an axis D06F 27/00 programme control aspects D06F 33/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining (with further drying me	ed, nent h);
1/00 3/00 5/00 7/00 9/00 11/00 13/00	Washing receptacles (of washing machines D06F 37/00, D06F 39/00)  Hand rubbing apparatus (corrugated tub-walls D06F 1/00)  Hand implements for washing purposes, e.g. sticks (hand rubbing appliances D06F 3/00; brushes A46B)  Washing devices adapted to be used independently of any particular receptacle, e.g. for removable mounting on wash-tubs, bath-tubs, or the like  Brushing-type washing machines  Washing machines using rollers, e.g. of the mangle type  Washing machines having receptacles, stationary for washing purposes, with agitators therein contacting the articles being washed (plungers or the like adapted for removable mounting on receptacles D06F 5/00; washing devices adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines having beating, rubbing, or squeezing means in receptacles stationary for	18/00 19/00 21/00	washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid (washing devices adapted to be used independently of any particular receptacle D06F 7/0 using vibrations for washing purposes D06F 19/00)  Washing machines having receptacles, stationary washing purposes, and having further drying me (details concerning drying only D06F 58/00) [3]  Washing machines using vibrations for washing purposes (devices of the vibrator type adapted to be used independently of any particular receptacle D06F 7/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory movem (with receptacles serving both for washing and centrifugally draining D06F 23/00, D06F 25/00; wit receptacles moving bodily about an axis D06F 27/00 programme control aspects D06F 33/00)  Washing machines with receptacles, e.g. perforat having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining (with further drying me	ed, nent h);

25/00	Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory	<u>Drying;</u>	Airing
	movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air (programme-control aspects D06F 33/00; details concerning drying only D06F 58/00)	53/00	Clothes-lines; Supports therefor (drying frames incorporating clothes-lines D06F 57/00; supports or holders specially adapted or mounted for storing and repeatedly paying-out and restoring lengths of lines B65H 75/34; ropes, cables D07B)
27/00	Washing machines with receptacles moving bodily, e.g. reciprocating, swinging	55/00	Clothes-pegs
20.100		57/00	Supporting means, other than simple clothes-lines, for linen or garments to be dried or aired (in
29/00	Combinations of a washing machine with other separate apparatus in a common frame or the like, e.g. with rinsing apparatus (with roller wringer D06F 45/00)		combination with means for heating or positive air circulation D06F 58/00, F26B; adapted to retain the shape of particular articles being dried D06F 59/00; clothing hangers, e.g. suit hangers, A47G 25/00)
31/00	Washing installations comprising an assembly of several washing machines or washing units, e.g. continuous flow assemblies	58/00	<b>Domestic laundry driers</b> (supports adapted to retain the shape of particular articles being dried, e.g. incorporating heating means D06F 59/00; drying in
33/00	Controlling a series of operations in washing machines, e.g. programme-control arrangements for	50./02	general F26B) [2]
	washing and drying cycles (D06F 31/00 takes precedence)	58/02	<ul> <li>having drier drums rotating about a horizontal axis [3]</li> </ul>
33/02	• electrically	58/04	<ul> <li>Details (controlling or regulating arrangements D06F 58/28) [3]</li> </ul>
35/00	Washing machines, apparatus, or methods not otherwise provided for	58/10	<ul> <li>Drying cabinets or drying chambers having heating or ventilating means [3]</li> </ul>
37/00	Details of washing machines of kinds covered by	58/16	<ul> <li>having heatable surfaces for contacting the laundry (D06F 59/00 takes precedence) [3]</li> </ul>
	groups D06F 21/00 to D06F 25/00, restricted to machines of these kinds (details of more general	58/18	<ul> <li>Detachable or door-mounted drying arrangements for washing machines [3]</li> </ul>
	application D06F 39/00; details concerning drying only D06F 58/00)	58/20	• General details of domestic laundry driers (D06F 59/00 takes precedence) [3]
37/20	Mountings, e.g. resilient mountings, for the rotary receptacle, motor, tub, or casing; preventing or damping vibrations (damping vibrations in general	58/28	• Controlling or regulating (controlling or regulating in general G05) [3]
37/30	F16F) Driving arrangements	59/00	Supports adapted to retain the shape of particular articles being dried, e.g. incorporating heating means
39/00	Details of washing machines in so far as such details are not special to washing machines of groups D06F 21/00 to D06F 25/00 or to any particular type	60/00	Drying not provided for in groups D06F 53/00 to D06F 59/00 [2009.01]
	of washing machine defined in groups D06F 9/00 to D06F 19/00 or D06F 27/00	<u>Ironing;</u>	<del></del>
39/02	Devices for adding soap or other washing agents	61/00	Ironing machines using two or more co-operating pressing rollers
39/08	Liquid supply or discharge arrangements (supplying liquid detergent D06F 39/02)	62/00	
39/12	. Casings; Tubs	63/00	Ironing machines having a roller or rollers coacting with a fixed or moving flat bed or table (coverings or pads D06F 83/00)
41/00	Rinsing apparatus	<i>(5/</i> 00	,
43/00	<b>Dry-cleaning apparatus using volatile solvents</b> (D06F 9/00 to D06F 41/00 take precedence)	65/00	Ironing machines with rollers rotating against curved surfaces
	water from the linen; Smoothing by cold rolling	67/00	<b>Details of ironing machines provided for in groups D06F 61/00, D06F 63/00, or D06F 65/00</b> (coverings or pads for ironing or pressing members D06F 83/00)
45/00	Wringing machines with two or more co-operating rollers; Similar cold-smoothing apparatus (combined	69/00	Ironing machines not otherwise provided for
	with tables A47B)	71/00	Apparatus for hot-pressing clothes, linen, or other
47/00	Apparatus of the press type for expelling water from the linen		textile articles, i.e. wherein there is substantially no relative movement between pressing element and
49/00	<b>Domestic spin-dryers or similar spin-dryers not suitable for industrial use</b> (centrifuges in general B04B)		article while pressure is being applied to the article; Similar machines for cold-pressing clothes, linen, or other textile articles (smoothing by cold rolling between two or more co-operating rollers D06F 45/00; devices for howehold we for sold pressing corrects
51/00	Apparatus for expelling or draining water from the linen, not provided for in groups D06F 45/00 to D06F 49/00		devices, for household use, for cold-pressing garments A47G)

73/00	73/00 Apparatus for smoothing or removing creases from garments or other textile articles by formers, cores, stretchers, or internal frames, with the application of heat or steam (stretchers for drying purposes D06F 59/00; combined with external pressure means D06F 71/00; stretchers for use with presses D06F 71/00; dress forms for the tailoring trade A41H; garment stretchers without the application of heat A47G 25/00)	85/00	Independent elements for interposition between the article and the ironing or pressing surface
		Other la	undry apparatus or systems
		87/00	Apparatus for moistening or otherwise conditioning the article to be ironed or pressed (apparatus for smoothing or removing creases from garments or other textile articles by formers, cores, stretchers or internal
<b>75/00</b> 75/08	Hand irons . Hand irons internally heated by electricity		frames, with the application of heat or steam D06F 73/00)
77/00	Arrangements for exerting pressure on, lifting, or guiding hand irons	89/00	Apparatus for folding textile articles with or without stapling [4]
<b>79/00</b>	Accessories for hand irons	91/00	Starching apparatus
81/00	Ironing boards (coverings or pads therefor D06F 83/00; combined with tables, mounted in kitchen or hints A47B, tables in general A47B, combined with	93/00	Counting, sorting, or marking arrangements specially adapted for laundry purposes
	cabinets A47B; tables in general A47B; combined with ladders E06C)	95/00	Laundry systems or arrangements of apparatus or
83/00	Coverings or pads for ironing or pressing members		machines; Mobile laundries (D06F 31/00 takes precedence; laundries as buildings E04H)
D06G	MECHANICAL OR PRESSURE CLEANING OF CAR ARTICLES OR FABRICS; TURNING INSIDE-OUT (mechanical preparation or mechanical treatment of bed feat	Γ FLEXIBL	E TUBULAR OR OTHER HOLLOW ARTICLES
D06G	ARTICLES OR FABRICS; TURNING INSIDE-OUT	Γ FLEXIBL	E TUBULAR OR OTHER HOLLOW ARTICLES
	ARTICLES OR FABRICS; TURNING INSIDE-OUT (mechanical preparation or mechanical treatment of bed feat Beating, brushing, or otherwise mechanically cleaning or pressure cleaning carpets, rugs, sacks, hides, or other skin or textile articles or fabrics (brushes A46B; suction cleaners A47L; domestic cleaning apparatus A47L; cleaning in general B08B;	Γ FLEXIBL	E TUBULAR OR OTHER HOLLOW ARTICLES
1/00	ARTICLES OR FABRICS; TURNING INSIDE-OUT (mechanical preparation or mechanical treatment of bed feat mechanical preparation or mechanical treatment of bed feat beating, brushing, or otherwise mechanically cleaning or pressure cleaning carpets, rugs, sacks, hides, or other skin or textile articles or fabrics (brushes A46B; suction cleaners A47L; domestic cleaning apparatus A47L; cleaning in general B08B; apparatus for cleaning bed feathers B68G 3/00)  Turning inside-out flexible tubular or other hollow	Γ FLEXIBL	E TUBULAR OR OTHER HOLLOW ARTICLES
1/00	ARTICLES OR FABRICS; TURNING INSIDE-OUT (mechanical preparation or mechanical treatment of bed feat mechanical preparation or mechanical treatment of bed feat bed feating, brushing, or otherwise mechanically cleaning or pressure cleaning carpets, rugs, sacks, hides, or other skin or textile articles or fabrics (brushes A46B; suction cleaners A47L; domestic cleaning apparatus A47L; cleaning in general B08B; apparatus for cleaning bed feathers B68G 3/00)  Turning inside-out flexible tubular or other hollow articles (in combination with inspecting D06H 3/00)  Mechanical, vacuum, or pressure cleaning in combination with the turning inside-out of flexible	r FLEXIBLE thers B68G 3/6	E TUBULAR OR OTHER HOLLOW ARTICLES (90)
1/00 3/00 5/00	ARTICLES OR FABRICS; TURNING INSIDE-OUT (mechanical preparation or mechanical treatment of bed feat mechanical preparation or mechanical treatment of bed feat graphs, brushing, or otherwise mechanically cleaning or pressure cleaning carpets, rugs, sacks, hides, or other skin or textile articles or fabrics (brushes A46B; suction cleaners A47L; domestic cleaning apparatus A47L; cleaning in general B08B; apparatus for cleaning bed feathers B68G 3/00)  Turning inside-out flexible tubular or other hollow articles (in combination with inspecting D06H 3/00)  Mechanical, vacuum, or pressure cleaning in combination with the turning inside-out of flexible tubular or other hollow articles  MARKING, INSPECTING, SEAMING, OR SEVERING with manufacturing, see the relevant subclasses)	r FLEXIBLE thers B68G 3/6	E TUBULAR OR OTHER HOLLOW ARTICLES (90)
1/00  3/00  5/00  D06H  Subclass	ARTICLES OR FABRICS; TURNING INSIDE-OUT (mechanical preparation or mechanical treatment of bed feat mechanical preparation or mechanical treatment of bed feat graphs, brushing, or otherwise mechanically cleaning or pressure cleaning carpets, rugs, sacks, hides, or other skin or textile articles or fabrics (brushes A46B; suction cleaners A47L; domestic cleaning apparatus A47L; cleaning in general B08B; apparatus for cleaning bed feathers B68G 3/00)  Turning inside-out flexible tubular or other hollow articles (in combination with inspecting D06H 3/00)  Mechanical, vacuum, or pressure cleaning in combination with the turning inside-out of flexible tubular or other hollow articles  MARKING, INSPECTING, SEAMING, OR SEVERING with manufacturing, see the relevant subclasses)	r FLEXIBLE thers B68G 3/6	E TUBULAR OR OTHER HOLLOW ARTICLES (90)
1/00  3/00  5/00  D06H  Subclass  MARKIN SEAMING	ARTICLES OR FABRICS; TURNING INSIDE-OUT (mechanical preparation or mechanical treatment of bed feat mechanical preparation or mechanical treatment of bed feat bed feating, brushing, or otherwise mechanically cleaning or pressure cleaning carpets, rugs, sacks, hides, or other skin or textile articles or fabrics (brushes A46B; suction cleaners A47L; domestic cleaning apparatus A47L; cleaning in general B08B; apparatus for cleaning bed feathers B68G 3/00)  Turning inside-out flexible tubular or other hollow articles (in combination with inspecting D06H 3/00)  Mechanical, vacuum, or pressure cleaning in combination with the turning inside-out of flexible tubular or other hollow articles  MARKING, INSPECTING, SEAMING, OR SEVERING with manufacturing, see the relevant subclasses)	r FLEXIBLE thers B68G 3/6	E TUBULAR OR OTHER HOLLOW ARTICLES (90)

1/00

 $\label{lem:marking} \begin{tabular}{ll} Marking in the testing of the entire combination of th$ 

			D06H - D06M
3/00	<b>Inspecting textile materials</b> (testing physical properties of textile materials G01N, e.g. investigating the presence of flaws, defects or contamination using optical means G01N 21/88)	7/00	Apparatus or processes for cutting, or otherwise severing, specially adapted for the cutting, or otherwise severing, of textile materials (severing for making button loss A41H; hand cutting tools in general PACE position loss high in the process of the process
5/00	Seaming textile materials		B26B; cutting machines in general B26D; severing otherwise than by cutting in general B26F; trimming seamed edges, shearing surfaces of fabrics, shearing lace or embroidery, e.g. cutting loose threads D06C)
D06J	PLEATING, KILTING, OR GOFFERING TEXTILE otherwise deforming paper, or material worked in a manne D03D; by sewing D05B; apparatus for pressing or setting for	er analogous	to paper, without removing material B31F; by weaving
1/00	Pleating, kilting, or goffering textile fabrics or wearing apparel		
D06L	BLEACHING, E.G. OPTICAL BLEACHING, DRY-CLE FEATHERS, OR MADE-UP FIBROUS GOODS; BLEA glass, mineral wool, or slag wool C03; chemical treatment matters, see D06B, D06C, D06F; bleaching paper pulp or cot	of fibrous m	EATHER OR FURS (treatment of fibres or filaments of naterial to obtain fibres for spinning D01; for mechanical
	<u>Note</u>		
	Processes using enzymes or micro-organisms in order to: (i) liberate, separate or purify a pre-existing compound or co (ii) treat textiles or clean solid surfaces of materials are further classified in subclass C12S. [5]	mposition, o	r to
1/00	Dry-cleaning or washing fibres, threads, yarns, fabrics, feathers, or made-up fibrous goods		
3/00	Bleaching fibres, threads, yarns, fabrics, feathers, or made-up fibrous goods, leather, or furs		
D06M	TREATMENT, NOT PROVIDED FOR ELSEWHERE FEATHERS, OR FIBROUS GOODS MADE FROM SUC minerals or slags C03C 25/00; treatment of textiles by mecha	CH MATER	IALS (surface treatment of fibres or filaments from glass,
	<u>Notes</u>		
(1)	In each of the groups D06M 11/00 to D06M 15/00, in the abs	ence of an in	dication to the contrary, a substance is classified in the last
(2)	<ul> <li>appropriate place. [5]</li> <li>In this subclass:</li> <li>(a) Within each one of main groups D06M 11/00 to D06M 15 essential ingredient. If more than one ingredient is essentic contrary, according to the essential ingredient which below</li> <li>(b) Treatment by mixtures of substances covered by two or mappropriate main group. [5]</li> </ul>	al, the mixtu	re is classified, in the absence of an indication to the tappropriate place in the sequence of substance.
(3)	In this subclass, the treatment of textiles, not provided for else  (a) Treatment of textiles characterised by the treating agent in  (b) Treatment of textiles characterised by the process in group	n groups D06	M 11/00 to D06M 16/00.
(4)	Processes using enzymes or micro-organisms in order to:  (i) liberate, separate or purify a pre-existing compound or co  (ii) treat textiles or clean solid surfaces of materials  are further classified in subclass C128 [5]		

## Int.Cl. (2009.01) Vol. 2, Section D

TREATMENT OF FIBRES, THREADS, YARNS, FABRICS, OR FIBROUS

**Subclass Index** 

ARTICLES

are further classified in subclass C12S. [5]

with inorganic substances......11/00

with non-macromolecular organic

with macromolecular substances ......15/00

PHYSICA TREATM	MICAL TREATMENT		ENT OF FEATHERS
10/00	Physical treatment of fibres, threads, yarns, fabrics, or fibrous goods made from such materials, e.g. ultrasonic, corona discharge, irradiation, electric currents, magnetic fields; Physical treatment combined with treatment with chemical compounds or elements (graft polymerisation using wave energy or particle radiation D06M 14/00) [2,5]	15/00 <u>Note</u>	Treating fibres, threads, yarns, fabrics or fibrous goods made from such materials with macromolecular compounds; Such treatment combined with mechanical treatment (D06M 10/00, D06M 14/00 take precedence) [5]
11/00	Treating fibres, threads, yarns, fabrics, or fibrous goods made from such materials, with inorganic substances or complexes thereof; Such treatment combined with mechanical treatment, e.g. mercerising (D06M 10/00 takes precedence; decorating textiles by local treatment D06Q 1/00) [5]		In this group, the following term is used with the meaning indicated:  - "treatment" means, in the absence of an indication to the contrary, the treatment which leads to the end product, e.g.:  (a) treatment with polyvinylalcohol can mean treatment with polyvinylacetate and subsequent
<u>Note</u>	In this group, the following term is used with the meaning indicated:  - "treatment" means, in the absence of an indication to the contrary, the treatment which leads to the end product, e.g. treatment with barium sulfate can mean		saponification in a separate step; (b) treatment with aminoplast can mean the delayed cure process or the treatment with precondensation products, or with e.g. urea and with formaldehyde in two separate steps. [5]
	treatment with barium chloride and with sulfuric acid in two separate steps. [5]	15/01	<ul> <li>with natural macromolecular compounds or derivatives thereof (with natural rubber or derivatives thereof D06M 15/693) [4]</li> </ul>
13/00	Treating fibres, threads, yarns, fabrics or fibrous goods made from such materials with non-macromolecular organic compounds (D06M 10/00, D06M 14/00 take precedence; treatment with complexes of organic amines with inorganic substances D06M 11/00); Such treatment combined with mechanical treatment [4,5]	15/19 15/21 15/37	<ul> <li>with synthetic macromolecular compounds (with synthetic rubber D06M 15/693) [4]</li> <li>Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [4]</li> <li>Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds [4]</li> </ul>
<u>Note</u>		15/693	<ul> <li>with natural or synthetic rubber, or derivatives thereof [4]</li> </ul>
	In this group, the following term is used with the meaning indicated:  - "treatment" means, in the absence of an indication to the contrary, the treatment which leads to the end product, e.g. treatment with chloroacetic acid can mean treatment with chloroacetylchloride and saponification in two separate steps. [5]	15/70	<ul> <li>combined with mechanical treatment (decorating textiles D06Q)</li> </ul>
		16/00	Biochemical treatment of fibres, threads, yarns, fabrics, or fibrous goods made from such materials, e.g. enzymatic [2]
		17/00	Producing multi-layer textile fabrics
14/00	Graft polymerisation of monomers containing carbon-to-carbon unsaturated bonds on to fibres,	19/00	Treatment of feathers [2]
	threads, yarns, fabrics, or fibrous goods made from such materials (on to unshaped polymers C08F 251/00 to C08F 292/00) [4]	23/00	Treatment of fibres, threads, yarns, fabrics or fibrous goods made from such materials, characterised by the process [5]
		23/08	<ul> <li>Processes in which the treating agent is applied in powder or granular form (adhesives for multi-layer textile fabrics D06M 17/00; decorating textiles D06Q) [5]</li> </ul>
		23/12	<ul> <li>Processes in which the treating agent is incorporated in microcapsules (making microcapsules B01J 13/02) [5]</li> </ul>

#### **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.

1/00	Linoleum	3/00	Artificial leather, oilcloth, or like material obtained by covering fibrous webs with macromolecular material, e.g. resins, rubber or derivatives thereof [4]
		3/12	<ul> <li>with macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds</li> </ul>
		5/00	Roofing felt, i.e. fibrous webs coated with bitumen
		7/00	Flexible sheet materials not otherwise provided for, e.g. textile threads, filaments, yarns or tow, glued on macromolecular material

**D06P** DYEING OR PRINTING TEXTILES; DYEING LEATHER, FURS, OR SOLID MACROMOLECULAR SUBSTANCES IN

ANY FORM (for mechanical matters, see B41F, B41J, D06B, D06C; printing on surfaces of materials other than textiles B41M; surface treatment of fibres or filaments from glass, minerals, or slags C03C 25/00; mordanting D06M; dyeing paper D21H)

#### Note

Processes using enzymes or micro-organisms in order to:

- (i) liberate, separate or purify a pre-existing compound or composition, or to
- (ii) treat textiles or clean solid surfaces of materials

are further classified in subclass C12S. [5]

## S

Subclass	Index			
DYEING	OR PRINTING PROCESSES	Combined with mechanical		
	Classified according to dyes or	treatment	7/00	
	auxiliary agents	TREATMENT, RESERVE DYEING OR		
	Classified according to material			
	treated	PRINTING	5/00	
1/00	General processes of dyeing or printing textiles, or	3/04 containing amide groups		
	general processes of dyeing leather, furs, or solid	3/24 Polyamides; Polyurethanes		
	macromolecular substances in any form, classified according to the dyes, pigments, or auxiliary	<ul> <li>3/34 • Material containing ester groups (D06P 3/04 precedence)</li> </ul>	4 takes	
1 /00	substances employed	3/58 . Material containing hydroxyl groups		
1/02	<ul> <li>using azo dyes (D06P 1/18, D06P 1/38, D06P 1/39, D06P 1/41 take precedence) [2]</li> </ul>	3/70 . Material containing nitrile groups		
1/16	using dispersed, e.g. acetate, dyestuffs	3/79 . Polyolefins [2]		
1/18	Azo dyes	3/80 . Inorganic fibres (surface treatment of fibres		
1/38	using reactive dyes	filaments from glass, minerals or slags C030		
1/39	using acid dyes [2]	3/82 • Textiles which contain different kinds of fib	ores	
1/41	using basic dyes [2]	5/00 Other features in dyeing or printing textiles,	. or	
1/44	<ul> <li>using basic dyes [2]</li> <li>using insoluble pigments or auxiliary substances,</li> <li>e.g. binders [2]</li> </ul>	dyeing leather, furs, or solid macromolecula substances in any form		
1/64	using compositions containing low-molecular-	5/02 • After-treatment		
	weight organic compounds without sulfate or sulfonate groups	<ul> <li>5/12 Reserving parts of the material before dyein printing</li> </ul>	ig or	
2 /00		5/13 • Fugitive dyeing or stripping dyes [2]		
3/00	Special processes of dyeing or printing textiles, or dyeing leather, furs, or solid macromolecular	5/15 . Locally discharging the dyes [2]		
	substances in any form, classified according to the material treated	5/20 • Physical treatments affecting dyeing, e.g. ul electric [2]	trasonic,	

. Material containing basic nitrogen

3/02

5/22 . Effecting variation of dye affinity on textile material by chemical means that react with the fibre [2]

5/24 • Transfer printing (transfer printing apparatus for textile material B41F 16/00) [7]

5/30 • Ink jet printing (ink jet printing apparatus B41J 2/00) [7]

7/00 Dyeing or printing processes combined with mechanical treatment

**D06Q DECORATING TEXTILES** (for treatment of textiles by mechanical means, <u>see</u> D06B to D06J; metallising the entire surface of textiles D06M 11/00; textile threads, filaments, yarns or tow, glued on macromolecular material D06N 7/00; dyeing or printing D06P) [5]

#### **Note**

In this subclass, the following term is used with the meaning indicated:

- "decorating" means "local treatment" or "local effects produced" as to change, e.g. optically, the appearance or the properties of textile materials. [5]

1/00 Decorating textiles (partial dyeing D06B 11/00; reserving parts of the material before dyeing or printing textiles D06P 5/12)

## D07 ROPES; CABLES OTHER THAN ELECTRIC

**D07B** ROPES OR CABLES IN GENERAL (joining ropes or cables to one another or to other objects B65H 69/00, F16G 11/00; mechanical finishing or dressing of ropes D02J; decorative ropes or cords D04D; suspension cables for bridges E01D 19/00; specially adapted for driving, or for being driven by, pulleys or other gearing elements F16G 9/00; electric cables or joints insofar as electrical aspects are essential H01B, H01R)

STRUCT MANUFA	URAL FEATURES		Making from special material5/00Making ropes or cables of particular form5/00Binding or sealing ends9/00
1/00	Constructional features of ropes or cables	5/00	Making ropes or cables from special materials or of particular form
Manufact 3/00	ture of ropes or cables  General-purpose machines or apparatus for producing twisted ropes or cables from component	7/00	Details of, or auxiliary devices incorporated in, rope- or cable-making machines; Auxiliary apparatus associated with such machines
	strands of the same or different material	9/00	Binding or sealing ends, e.g. to prevent unravelling

#### **PAPER**

#### D21 PAPER-MAKING; PRODUCTION OF CELLULOSE

#### D21B FIBROUS RAW MATERIALS OR THEIR MECHANICAL TREATMENT

#### 1/00 Fibrous raw materials or their mechanical treatment

(breaking-up or cutting wood or the like by dry methods B27L; obtaining fibres mechanically for spinning from rags, peat, or the like D01B; beaters D21D 1/00)

# D21C PRODUCTION OF CELLULOSE BY REMOVING NON-CELLULOSE SUBSTANCES FROM CELLULOSE-CONTAINING MATERIALS; REGENERATION OF PULPING LIQUORS; APPARATUS THEREFOR

#### **Note**

Processes using enzymes or micro-organisms in order to:

- (i) liberate, separate or purify a pre-existing compound or composition, or to
- (ii) treat textiles or clean solid surfaces of materials are further classified in subclass C12S. [5]

#### **Subclass Index**

PRODUC'	TION OF CELLULOSE		Digesters
	Pretreatment of raw material1/00	AFTER-T	REATMENT 9/00
	Pulping3/00	REGENE	RATION OF PULP LIQUORS 11/00
	Other processes5/00		
1/00	Pretreatment of the finely-divided materials before digesting (of waste paper D21C 5/02)	9/00	After-treatment of cellulose pulp, e.g. of wood pulp, or cotton linters
3/00	Pulping cellulose-containing materials (digesters D21C 7/00)	9/10 9/147	<ul> <li>Bleaching</li> <li>with oxygen or its allotropic modifications (D21C 9/16 takes precedence) [4]</li> </ul>
5/00	Other processes for obtaining cellulose, e.g. cooking cotton linters (obtaining fibres for spinning D01C)	9/16	with per compounds
5/02	Working-up waste paper (mechanical part	11/00	Regeneration of pulp liquors
	D21B 1/00)	11/12	. Combustion of pulp liquors
7/00	Digesters		

#### D21D TREATMENT OF THE MATERIALS BEFORE PASSING TO THE PAPER-MAKING MACHINE [5]

- 1/00 Methods of beating or refining; Beaters of the Hollander type (knotter screens D21F)
- 5/00 Purification of the pulp suspension by mechanical means; Apparatus therefor (centrifuges, cyclones B04)
- 99/00 Subject matter not provided for in other groups of this subclass [8]

#### D21F PAPER-MAKING MACHINES; METHODS OF PRODUCING PAPER THEREON

#### Subclass Index

MAKING CONTINUOUS WEBS		other details7/00		
Complete machines		Processes		
	Details	MAKING DISCONTINUOUS SHEETS		
	wet end, transfer to press section, press section, dryer section			
1/00	Wet end of machines for making continuous webs of paper (suction rolls D21F 3/02)	5/00	Dryer section of machines for making continuous webs of paper	
1/02	. Head boxes of Fourdrinier machines	7/00	Oth 1-4-11 6	
1/06	. Regulating pulp flow	7/00	Other details of machines for making continuous webs of paper	
1/10	. Wire-cloths	7/08	Felts	
1/18	. Shaking-apparatus for wire-cloths and associated	7708	. Tells	
	parts	9/00 Complete	Complete machines for making continuous webs of	
1/24	. Tilting, raising, or lowering mechanisms for wire-		paper	
	cloths	11/00	Processes for making continuous lengths of paper, or	
1/30	. Protecting wire-cloths from mechanical damage	11/00	of cardboard, or of wet web for fibreboard	
1/32	. Washing wire-cloths or felts	12/00	production, on paper-making machines	
1/48	<ul> <li>Suction apparatus (suction rolls D21F 3/02)</li> </ul>			
1/66	<ul> <li>Pulp catching, de-watering, or recovering; Re-use of pulp-water</li> </ul>	13/00	Methods or apparatus for making discontinuous sheets of paper, pulpboard, or cardboard, or of wet web, for fibreboard production (making discontinuous	
2/00	Transferring continuous webs from wet ends to press sections		sheets of board in moulds D21J; drying paper, pulpboard, or cardboard, in discontinuous-sheet form	
3/00	Press section of machines for making continuous webs of paper		F26B)	
3/02	. Wet presses			
D21G	CALENDERS; ACCESSORIES FOR PAPER-MAKING adjustment of wrinkles or lateral extensions B65H)	G MACHINE	S (winders or rewinders for finished products, means for	
1/00	Calenders (if restricted to the treatment of particular	5/00	Safety devices	
	materials, see the relevant place, e.g. B29C 43/24, D06);	7/00	Damping devices	
	Smoothing apparatus	7700	Damping ucvices	
3/00	Doctors	9/00	Other accessories for paper-making machines	

# D21H PULP COMPOSITIONS; PREPARATION THEREOF NOT COVERED BY SUBCLASSES D21C, D21D; IMPREGNATING OR COATING OF PAPER; TREATMENT OF FINISHED PAPER NOT COVERED BY CLASS B31 OR SUBCLASS D21G; PAPER NOT OTHERWISE PROVIDED FOR [5]

#### **Notes**

- (1) This subclass <u>covers</u> also pulp compositions for the preparation of fibreboard or other fibrous articles by wet processes. [5]
- (2) In this subclass, the following terms are used with the meaning indicated:
  - "pulp" means a dispersion comprising paper-making fibres and optional additives, which is to be processed, and covers the term "stock"; it also means dry paper-making fibres which are to be made into paper by either wet or dry processes; [5]
  - "paper" means paper, cardboard or wet-laid non-woven fabrics.
- (3) If a pulp composition or a paper, or a constituent thereof, is characterised by more than one feature provided for in this subclass, for example, by both the fibrous material and a coating or by both a colorant and a water-repelling agent, classification is made in all places providing for these features. [8]
- (4) Processes using enzymes or micro-organisms in order to:
  - (i) liberate, separate or purify a pre-existing compound or composition, or to

(ii) treat textiles or clean solid surfaces of materials are further classified in subclass C12S. [5]

PULP OF			Processes or apparatus for adding material	
	comprising cellulose, lignocellulose or non-cellulose fibres or webforming material	NON-FIBROUS MATERIAL ADDED TO THE PULP, PAPER-IMPREGNATING		
	comprising fibres or web-forming material not characterised by their		MATERIAL	
	chemical constitution		AFTER-TREATMENTS OF PAPER25/00	
			L PAPER	
<u>Note</u>		23/00	Processes or apparatus for adding material to the pulp or to the paper (applying liquids or other fluent	
	In groups D21H 11/00 to D21H 15/00, in the absence of an indication to the contrary, classification is made in		material to surfaces, in general B05; processes for making continuous lengths of paper D21F 11/00) [5]	
11/00	the last appropriate place. [5]	25/00	After-treatment of paper not provided for in groups D21H 17/00 to D21H 23/00 [5]	
	Pulp or paper, comprising cellulose or lignocellulose fibres of natural origin only [5]	27/00	Special paper not otherwise provided for, e.g. made by multi-step processes [5]	
13/00	Pulp or paper, comprising synthetic cellulose or non- cellulose fibres or web-forming material (chemical features in the manufacture of artificial fibres D01F) [5]	<u>Note</u>	by main step processes [e]	
15/00	Pulp or paper, comprising fibres or web-forming material characterised by features other than their chemical constitution [5]		This group provides for the classification of paper with special properties or applications which are only partially or not at all provided for elsewhere in the classification. Whenever possible, however, these papers	
17/00	Non-fibrous material added to the pulp, characterised by its constitution; Paper- impregnating material characterised by its		are classified according to the criteria used in the other groups of this subclass. [5]	
19/00	<ul><li>constitution [5]</li><li>Coated paper (coated fibreboard D21J 1/00); Coating</li></ul>	27/02	• Patterned paper (patterned coatings D21H 19/00; embossing B31F 1/00; prepared on the paper-making machines D21F 11/00) [5]	
	material (recording sheets characterised by the coating	27/06	• Vegetable or imitation parchment; Glassine paper [5]	
	used to improve ink, dye or pigment receptivity B41M 5/50) [5]	27/08	• Filter paper (self-supporting filtering material B01D 39/14; making on paper-making machines	
21/00	Non-fibrous material added to the pulp, characterised by its function, form or properties; Paper impregnating or coating material,	27/10	D21F 11/00) [5] Packing paper (packaging materials of special type or form B65D 65/38) [5]	
	characterised by its function, form or properties	27/12	Electrically-insulating paper [5]	
21.10.5	(coatings characterised by a special visual effect D21H 19/00) [5]	27/14	Paper having stable form or dimension; Curl-resistant paper (anticoil photographic support G03C 1/81) [5]	
21/06	Paper forming aids [5]	27/16	. Pure paper, i.e. paper lacking or having low content	
21/10 21/14	<ul> <li>Retention agents or drainage improvers [5]</li> <li>characterised by function or properties in or on the paper (D21H 19/00, D21H 27/02 take</li> </ul>	2= /10	of contaminants (after-treatment of cellulose pulp D21C 9/00) [5]	
21/22	precedence) [5]  . Agents rendering paper porous, absorbent or	27/18	Paper- or board-based structures for surface covering (printed wallpapers B41M 3/00) [5]	
21/22	bulky [5] . Ignifugeants [5]	27/30	<ul> <li>Multi-ply (for surface covering D21H 27/18; making on paper-making machines D21F 9/00, D21F 11/00) [5]</li> </ul>	
21/40	<ul> <li>Agents facilitating proof of genuineness or preventing fraudulent alteration, e.g. for security paper (watermarking B41M 3/00, D21F 1/00;</li> </ul>	<u>Note</u>	7	
	security printing B41M 3/14; securities or banknotes characterised by colour effects B44F 1/00; testing paper currency or valuable papers for genuineness G07D 7/00) [5]		Layered products classified in this group are also classified in subclass B32B. [5]	

# D21J FIBREBOARD; MANUFACTURE OF ARTICLES FROM CELLULOSIC FIBROUS SUSPENSIONS OR FROM PAPIER-MÂCHÉ (manufacture of articles by dry processes B27N)

- 1/00 Fibreboard (preparation of pulp compositions or addition of chemical agents D21B, D21C, D21H; formation of the wet web D21F)

  5/00 Manufacture of hollow articles by transferring sheets, produced from fibres suspensions or papier-mâché by suction on wire-net moulds, to couch moulds
- 3/00 Manufacture of articles by pressing wet fibre pulp, or papier-mâché, between moulds
- moulds
  7/00 Manufacture of hollow articles from fibre
  - suspensions or papier-mâché by deposition of fibres in or on a wire-net mould

#### **D99** SUBJECT MATTER NOT OTHERWISE PROVIDED FOR IN THIS SECTION [8]

#### SUBJECT MATTER NOT OTHERWISE PROVIDED FOR IN THIS SECTION [8] **D99Z**

#### **Note**

This subclass covers subject matter that: [8]

- (a) is not provided for, but is most closely related to, the subject matter covered by the subclasses of this section, and [8] (b) is not explicitly covered by any subclass of another section. [8]

99/00 Subject matter not otherwise provided for in this section [8]