

# CPC COOPERATIVE PATENT CLASSIFICATION

## D TEXTILES; PAPER

### TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

#### D03 WEAVING

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

##### 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, further classification in indexing scheme [D10B](#) for aspects relating to textiles is required.
4. 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.

##### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

#### Woven fabrics; Methods of weaving other than those characterised by the operation of a particular loom

##### **1/00 Woven fabrics designed to make specified articles**

- 1/0005 . {Woven fabrics for safety belts}
- 1/0011 . {Woven fabrics for labels}
- 1/0017 . {Woven household fabrics}
- 1/0023 . . {Mobs or wipes}
- 1/0029 . . {Doormats}
- 1/0035 . {Protective fabrics}
- 1/0041 . . {Cut or abrasion resistant}
- 1/0047 . . {Camouflage fabrics}
- 1/0052 . . {Antiballistic fabrics}
- 1/0058 . . {Electromagnetic radiation resistant}
- 1/0064 . . {Noise dampening}
- 1/007 . . {UV radiation protecting}
- 1/0076 . {Photovoltaic fabrics}
- 1/0082 . {Fabrics for printed circuit boards}
- 1/0088 . {Fabrics having an electronic function}
- 1/0094 . {Belts ([D03D 1/0005](#) takes precedence)}
- 1/02 . Inflatable articles
- 1/04 . Sack- or bag-like articles
- 1/06 . Curtain heading tapes
- 1/08 . Ladder tapes ([ladder tapes for venetian blinds E06B 9/382](#))

##### **3/00 Woven fabrics characterised by their shape**

- 3/005 . {Tapes or ribbons not otherwise provided for ([D03D 1/0005](#), [D03D 1/0011](#), [D03D 1/06](#), [D03D 1/08](#), [D03D 1/0094](#) take precedence)}
- 3/02 . Tubular fabrics
- 3/04 . Endless fabrics
- 3/06 . Fabrics of varying width
- 3/08 . Arched, corrugated, or like fabrics

##### **5/00 Selvages**

##### **7/00 Woven fabrics designed to be resilient, i.e. to recover from compressive stress**

##### **9/00 Open-work fabrics ([ladder-tape fabrics D03D 1/08](#))**

##### **11/00 Double or multi-ply fabrics not otherwise provided for**

- 11/02 . Fabrics formed with pockets, tubes, loops, folds, tucks, or flaps ([fabrics for curtain heading tapes D03D 1/06](#); fabrics consisting of a single tube [D03D 3/02](#))

##### **13/00 Woven fabrics characterised by the special disposition of the warp or weft threads, e.g. with curved weft threads, with discontinuous warp threads, with diagonal warp or weft**

##### WARNING

Group [D03D 13/00](#) is impacted by reclassification into group [D07B 7/021](#).

Groups [D03D 13/00](#) and [D07B 7/021](#) should be considered in order to perform a complete search.

- 13/002 . {With diagonal warps or wefts}
- 13/004 . {with weave pattern being non-standard or providing special effects}
- 13/006 . {With additional leno yarn}
- 13/008 . {characterised by weave density or surface weight}

**15/00 Woven fabrics characterised by the material, structure or properties of the fibres, filaments, yarns, threads or other warp or weft elements used**

**WARNING**

Group [D03D 15/00](#) is impacted by reclassification into groups [D03D 15/20](#), [D03D 15/208](#), [D03D 15/217](#), [D03D 15/225](#), [D03D 15/233](#), [D03D 15/242](#), [D03D 15/25](#), [D03D 15/275](#), [D03D 15/283](#), [D03D 15/30](#), [D03D 15/37](#), [D03D 15/40](#), [D03D 15/41](#), [D03D 15/50](#), [D03D 15/52](#), [D03D 15/527](#), [D03D 15/547](#), [D03D 15/553](#), [D03D 15/573](#), [D03D 15/587](#), [D03D 15/60](#), [D03D 15/62](#), and [D03D 15/67](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/20 . characterised by the material of the fibres or filaments constituting the yarns or threads

**WARNING**

Groups [D03D 15/20](#), [D03D 15/208](#), [D03D 15/217](#), [D03D 15/225](#), [D03D 15/242](#), [D03D 15/25](#), [D03D 15/275](#), and [D03D 15/283](#) are incomplete pending reclassification of documents from group [D03D 15/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/208 . . cellulose-based  
15/217 . . . natural from plants, e.g. cotton  
15/225 . . . artificial, e.g. viscose  
15/233 . . protein-based, e.g. wool or silk

**WARNING**

Group [D03D 15/233](#) is incomplete pending reclassification of documents from groups [D03D 15/00](#) and [D03D 15/63](#).

Groups [D03D 15/00](#), [D03D 15/63](#) and [D03D 15/233](#) should be considered in order to perform a complete search.

- 15/235 . . . {Cashmere or silk}  
15/242 . . inorganic, e.g. basalt  
15/247 . . . {Mineral}  
15/25 . . . Metal  
15/258 . . . . Noble metal  
15/267 . . . Glass  
15/275 . . . Carbon fibres  
15/283 . . synthetic polymer-based, e.g. polyamide or polyester fibres (cellulose-based artificial fibres [D03D 15/225](#))  
15/292 . . Conjugate, i.e. bi- or multicomponent, fibres or filaments

**WARNING**

Group [D03D 15/292](#) is incomplete pending reclassification of documents from group [D03D 15/47](#).

Groups [D03D 15/47](#) and [D03D 15/292](#) should be considered in order to perform a complete search.

- 15/30 . characterised by the structure of the fibres or filaments

**WARNING**

Group [D03D 15/30](#) is incomplete pending reclassification of documents from group [D03D 15/00](#).

Groups [D03D 15/00](#) and [D03D 15/30](#) should be considered in order to perform a complete search.

- 15/33 . . Ultrafine fibres, e.g. microfibres or nanofibres  
15/37 . . with specific cross-section or surface shape

**WARNING**

Group [D03D 15/37](#) is incomplete pending reclassification of documents from groups [D03D 15/00](#) and [D03D 15/44](#).

Groups [D03D 15/00](#), [D03D 15/44](#), and [D03D 15/37](#) should be considered in order to perform a complete search.

- 15/40 . characterised by the structure of the yarns or threads

**WARNING**

Groups [D03D 15/40](#) and [D03D 15/41](#) are incomplete pending reclassification of documents from group [D03D 15/00](#).

Groups [D03D 15/00](#), [D03D 15/40](#), and [D03D 15/41](#) should be considered in order to perform a complete search.

- 15/41 . . with specific twist  
15/43 . . with differing diameters  
15/44 . . with specific cross-section or surface shape

**WARNING**

Group [D03D 15/44](#) is impacted by reclassification into group [D03D 15/37](#).

Groups [D03D 15/44](#) and [D03D 15/37](#) should be considered in order to perform a complete search.

- 15/46 . . . Flat yarns, e.g. tapes or films  
15/47 . . multicomponent, e.g. blended yarns or threads (multicomponent fibres or filaments [D03D 15/292](#))

**WARNING**

Group [D03D 15/47](#) is impacted by reclassification into group [D03D 15/292](#).

Groups [D03D 15/47](#) and [D03D 15/292](#) should be considered in order to perform a complete search.

- 15/49 . . textured ([chenille D03D 27/18](#)); curled; crimped  
15/497 . . {Knitted threads}

- 15/50 . . characterised by the properties of the yarns or threads

**WARNING**

Groups [D03D 15/50](#), [D03D 15/527](#), [D03D 15/547](#), [D03D 15/553](#), [D03D 15/573](#), and [D03D 15/587](#) are incomplete pending reclassification of documents from group [D03D 15/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/507 . . magnetic  
15/513 . . heat-resistant or fireproof

**WARNING**

Group [D03D 15/513](#) is impacted by reclassification into group [D03D 15/52](#).

Groups [D03D 15/513](#) and [D03D 15/52](#) should be considered in order to perform a complete search.

- 15/52 . . thermal insulating, e.g. heating or cooling

**WARNING**

Group [D03D 15/52](#) is incomplete pending reclassification of documents from groups [D03D 15/00](#) and [D03D 15/513](#).

Groups [D03D 15/00](#), [D03D 15/513](#), and [D03D 15/52](#) should be considered in order to perform a complete search.

- 15/527 . . waterproof or water repellent  
15/533 . . antistatic; electrically conductive  
15/54 . . coloured  
15/547 . . with optical functions other than colour, e.g. comprising light-emitting fibres  
15/553 . . . with metallic effect ([metal D03D 15/25](#))  
15/56 . . elastic  
15/567 . . Shapes or effects upon shrinkage  
15/573 . . Tensile strength  
15/58 . . characterised by the coefficients of friction  
15/587 . . adhesive; fusible  
15/593 . . Stiff materials, e.g. cane or slat

**WARNING**

Group [D03D 15/593](#) is impacted by reclassification into group [D03D 15/67](#).

Groups [D03D 15/593](#) and [D03D 15/67](#) should be considered in order to perform a complete search.

- 15/60 . . characterised by the warp or weft elements other than yarns or threads

**WARNING**

Groups [D03D 15/60](#) and [D03D 15/62](#) are incomplete pending reclassification of documents from group [D03D 15/00](#).

Groups [D03D 15/00](#), [D03D 15/60](#), and [D03D 15/62](#) should be considered in order to perform a complete search.

- 15/62 . . Cords or ropes

- 15/63 . . Straps, e.g. leather straps

**WARNING**

Group [D03D 15/63](#) is impacted by reclassification into group [D03D 15/233](#).

Groups [D03D 15/63](#) and [D03D 15/233](#) should be considered in order to perform a complete search.

- 15/65 . . Paper  
15/67 . . Metal wires

**WARNING**

Group [D03D 15/67](#) is incomplete pending reclassification of documents from groups [D03D 15/00](#) and [D03D 15/593](#).

Groups [D03D 15/00](#), [D03D 15/593](#), and [D03D 15/67](#) should be considered in order to perform a complete search.

- 15/68 . . Scaffolding threads, i.e. threads removed after weaving

- 15/69 . . {Threads with beads}

**17/00 Woven fabrics having elastic or stretch properties due to manner of weaving (fabrics using stretchable or elastic threads [D03D 15/56](#))**

**19/00 Gauze or leno-woven fabrics**

**21/00 Lappet- or swivel-woven fabrics**

**23/00 General weaving methods not special to the production of any particular woven fabric or the use of any particular loom; Weaves not provided for in any other single group**

**25/00 Woven fabrics not otherwise provided for**

- 25/005 . . {Three-dimensional woven fabrics}

**27/00 Woven pile fabrics**

- 27/02 . . wherein the pile is formed by warp or weft  
27/04 . . Weft pile fabrics  
27/06 . . Warp pile fabrics  
27/08 . . . Terry fabrics  
27/10 . . Fabrics woven face-to-face, e.g. double velvet  
27/12 . . wherein pile tufts are inserted during weaving  
27/14 . . with tufts around warps  
27/16 . . with tufts around wefts  
27/18 . . Chenille fabrics

**Looms; Methods of weaving characterised by the operation of particular looms**

**29/00 Hand looms**

**31/00 Lappet, swivel or other looms for forming embroidery-like decoration on fabrics**

**33/00 Multiple looms, i.e. two or more looms assembled together, whether or not they have mechanisms in common ([D03D 35/00](#) takes precedence)**

**35/00 Smallware looms, i.e. looms for weaving ribbons or other narrow fabrics ([D03D 47/00](#) takes precedence)**

- 35/005 . . {Shuttles}

**37/00 Circular looms (looms for weaving separate fabrics disposed in a circle or polygon [D03D 33/00](#))**

<b>39/00</b>	<b>Pile-fabric looms</b>	45/28	. . . for one type of thread, e.g. same colour
39/02	. Axminster looms, i.e. wherein pile tufts are inserted during weaving	45/30	. . . . rotary
39/04	. . Spool Axminster looms	45/32	. . . for several types of thread, e.g. multicolour
39/06	. . . Tuft yarn tube or spool frames	45/34	. Shuttle changing
39/08	. . Gripper Axminster looms	45/36	. . fresh shuttle being substituted for spent shuttle in the same cell of shuttle box
39/083	. . . {Selecting mechanisms}	45/38	. . Shuttle box with an extra cell which is used only during replenishment
39/086	. . . {Gripper details}	45/40	. . . the spent shuttle being received in the normal cell and the fresh shuttle being picked from the extra cell
39/10	. Wire-tapestry looms, e.g. for weaving velvet or Brussels or Wilton carpets, the pile being formed over weftwise wires	45/42	. . . the spent shuttle being received in the extra cell and the fresh shuttle being picked from the normal cell
39/12	. . Mechanisms for operating the pile wires	45/44	. . Magazines
39/14	. . Construction of the pile wires, e.g. pile wires which cut	45/46	. . . for one type of thread, e.g. single colour
39/16	. Double-plush looms, i.e. for weaving two pile fabrics face-to-face	45/48	. . . for several types of threads, e.g. multicolour
39/18	. . Separating the two plush layers, e.g. by cutting	45/50	. Cutting, holding, manipulating, or disposing of, weft ends
39/20	. Looms forming pile over warpwise wires	45/52	. . Cutting weft of depleted shuttle near shuttle and holding the piece attached to the fabric
39/22	. Terry looms	45/54	. . Cutting fresh weft and holding the piece attached to the fabric
39/223	. . {Cloth control}	45/56	. . Cutting depleted and fresh wefts at selvage
39/226	. . {Sley control}	45/58	. . Removing tip bunch or fresh weft end from fresh bobbin
39/24	. Devices for cutting the pile on the loom (pile wires which cut <a href="#">D03D 39/14</a> ; separating two plush layers <a href="#">D03D 39/18</a> )	45/60	. . . substantially by air stream or suction
<b>41/00</b>	<b>Looms not otherwise provided for, e.g. for weaving chenille yarn; Details peculiar to these looms</b>	45/62	. . Disposing of waste pieces of cut weft end ( <a href="#">D03D 45/58</a> takes precedence)
41/001	. {Hair-cloth looms}	<b>47/00</b>	<b>Looms in which bulk supply of weft does not pass through shed, e.g. shuttleless looms, gripper shuttle looms, dummy shuttle looms (<a href="#">circular looms D03D 37/00</a>)</b>
41/002	. {Looms for weaving reed, straw or wood}	47/02	. wherein loops of continuous weft thread are inserted, i.e. double picks
41/004	. {Looms for three-dimensional fabrics}	47/04	. . by a reciprocating needle having a permanently-threaded eye
41/005	. {Linear-shed multiphase looms}	47/06	. . by a pivoted needle having a permanently-threaded eye
41/007	. {Vertical looms}	47/08	. . . the path of the needle being modified by cams, linkages, or other means
41/008	. {Looms for weaving flat yarns}	47/10	. . by a forked needle pushing loop of weft through shed
<b>43/00</b>	<b>Looms with change-boxes</b>	47/12	. wherein single picks of weft thread are inserted, i.e. with shedding between each pick
43/02	. with drop boxes	47/125	. . {Weft holding devices (if the weft is reinserted in the next shed <a href="#">D03D 47/48</a> ; in jet looms <a href="#">D03D 47/308</a> )}
43/04	. . Operating mechanisms	47/14	. . by a gripper needle taking the end of the weft through the shed
43/06	. with rotary boxes	47/16	. . by a gripper needle entering the shed empty and drawing the weft as it retracts
43/08	. . Operating mechanisms	47/18	. . two weft inserters meeting at or near the middle of the shed and transferring the weft from one to the other
43/10	. Weft catchers, i.e. means for preventing entanglement of wefts	47/20	. . Constructional features of the thread-engaging device on the inserters
<b>45/00</b>	<b>Looms with automatic weft replenishment (automatic replenishment in smallware looms <a href="#">D03D 35/00</a>, in circular looms <a href="#">D03D 37/00</a>; bobbins rewind on loom <a href="#">D03J 1/12</a>)</b>	47/22	. . . adapted for working a loop of weft part-way inserted in the shed and then straightened-out
45/02	. Controlling replenishment	47/23	. . . Thread grippers ( <a href="#">in dummy or gripper shuttles D03J 5/06</a> )
45/04	. . Pirm feelers or other detectors for initiating replenishment (weft stop motions <a href="#">D03D 51/34</a> )	47/233	. . . . {Carrying grippers}
45/06	. . . mechanical	47/236	. . . . {Drawing grippers}
45/08	. . . . of the side-slip type		
45/10	. . . electrical		
45/12	. . . optical		
45/14	. . Storing the need for replenishment or the colour required until the spent shuttle returns to the replenishing end of the loom		
45/16	. . . selecting thereby weft of correct colour		
45/18	. . Shuttle feelers or other devices for preventing replenishment if shuttle is incorrectly positioned in shuttle box (shuttle stop motions <a href="#">D03D 51/40</a> )		
45/20	. Changing bobbins, cops, or other shuttle stock		
45/22	. . effected with shuttle in normal shuttle box		
45/24	. . effected otherwise than in normal box		
45/26	. . Magazines		

- 47/24 . . by gripper or dummy shuttle ([travelling-wave-shed looms D03D 47/26](#); inserting mechanisms for shuttles [D03D 49/24](#); gripper or dummy shuttles *per se* [D03J 5/06](#))
- 47/25 . . . inserted from only one side of loom
- 47/26 . . Travelling-wave-shed looms
- 47/261 . . . {Preparation of weft}
- 47/262 . . . {Shedding, weft insertion or beat-up mechanisms}
- 47/263 . . . . {Weft insertion and beat-up mechanisms}
- 47/265 . . . . {Beat-up mechanisms ([D03D 47/263](#) takes precedence)}
- 47/266 . . . . {Weft insertion mechanisms ([D03D 47/263](#) takes precedence)}
- 47/267 . . . . {Shedding mechanisms}
- 47/268 . . . {Mechanisms for compensating warp tension}
- 47/27 . Drive or guide mechanisms for weft inserting
- 47/271 . . {Rapiers}
- 47/272 . . . {Rapier bands}
- 47/273 . . . {Rapier rods}
- 47/275 . . {Drive mechanisms}
- 47/276 . . . {Details or arrangement of sprocket wheels}
- 47/277 . . {Guide mechanisms ([for shuttles D03D 49/24](#))}
- 47/278 . . . {for pneumatic looms}
- 47/28 . wherein the weft itself is projected into the shed
- 47/30 . . by gas jet
- 47/3006 . . . {Construction of the nozzles}
- 47/3013 . . . . {Main nozzles}
- 47/302 . . . . {Auxiliary nozzles}
- 47/3026 . . . {Air supply systems}
- 47/3033 . . . . {Controlling the air supply}
- 47/304 . . . . . {Controlling of the air supply to the auxiliary nozzles}
- 47/3046 . . . . . {Weft yarn selection}
- 47/3053 . . . . {Arrangements or lay out of air supply systems}
- 47/306 . . . . {Construction or details of parts, e.g. valves, ducts}
- 47/3066 . . . {Control or handling of the weft at or after arrival}
- 47/3073 . . . . {Detection means therefor}
- 47/308 . . . . {Stretching or holding the weft}
- 47/3086 . . . . {Weft removal ([extraction of defective weft after stopping at definite point in weaving cycle D03D 51/085](#))}
- 47/3093 . . . {Displaying data}
- 47/32 . . by liquid jet
- 47/34 . Handling the weft between bulk storage and weft-inserting means
- 47/342 . . {knot detection}
- 47/345 . . {Rotating bobbins}
- 47/347 . . {Yarn brakes ([D03D 47/364](#) takes precedence)}
- 47/36 . . Measuring and cutting the weft {; Devices for measuring and temporary storing the weft ([cutting weft threads D03D 49/70](#))}
- 47/361 . . . {Drum-type weft feeding devices}
- 47/362 . . . . {with yarn retaining devices, e.g. stopping pins ([D03D 47/367](#) takes precedence)}
- 47/363 . . . . . {Construction or control of the yarn retaining devices}
- 47/364 . . . . {Yarn braking means acting on the drum}
- 47/365 . . . . . {Brushes}
- 47/366 . . . . . {Conical}
- 47/367 . . . . . {Monitoring yarn quantity on the drum}
- 47/368 . . . {Air chamber storage devices}
- 47/369 . . . {Communication systems}
- 47/38 . . Weft pattern mechanisms
- 47/39 . wherein cane, straw, slats, material for hair-cloth or similar material is handled
- 47/40 . Forming selvages
- 47/42 . . by knitting or interlacing loops of weft
- 47/44 . . . with additional selvage thread
- 47/46 . . by selvage shuttle or other device passing selvage thread through loop of weft ([by knitting D03D 47/44](#))
- 47/48 . . by inserting cut end of weft in next shed, e.g. by tucking, by blowing
- 47/50 . . by adhesion
- 49/00 Details or constructional features not peculiar to looms of a particular type ([temples D03J 1/22](#))**
- 49/02 . Construction of loom framework
- WARNING**
- This group is in the process of being reorganised to its subgroups
- 49/022 . . {Protective hoods or curtains}
- 49/025 . . {Ground supports}
- 49/027 . . {Arrangements or means for noise reduction}
- 49/04 . Control of the tension in warp or cloth
- 49/06 . . Warp let-off mechanisms ([construction of warp beam D02H](#))
- 49/08 . . . Warp beam brakes
- 49/10 . . . Driving the warp beam to let the warp off
- 49/12 . . Controlling warp tension by means other than let-off mechanisms
- 49/14 . . . Compensating for tension differences during shedding
- 49/16 . . . Warp supplied by creel
- 49/18 . . Devices for indicating warp tension ([measuring tension of threads in general G01L 5/04](#))
- 49/20 . . Take-up motions; Cloth beams ([storage racks for beams D02H](#))
- 49/22 . . Back rests; Lease rods; Brest beams
- 49/24 . Mechanisms for inserting shuttle in shed ([shuttles per se D03J 5/00](#))
- 49/26 . . Picking mechanisms, e.g. for propelling gripper shuttles or dummy shuttles
- 49/28 . . . Driving mechanisms for the picker stick
- 49/30 . . . . operated by cam
- 49/32 . . . . operated by previously-loaded spring or equivalent
- 49/34 . . . . operated by liquid or gas pressure
- 49/36 . . . Pickers; Arresting means therefor ([check straps D03D 49/40](#))
- 49/38 . . . Picking sticks; Arresting means therefor ([check straps D03D 49/40](#))
- 49/40 . . . Check straps; Lug straps; Similar strap components
- 49/42 . . whereby the shuttle is propelled by liquid or gas pressure
- 49/44 . . whereby the shuttle is propelled by electric or magnetic means
- 49/46 . . wherein the shuttle is pushed or pulled positively ([travelling-wave-shed looms D03D 47/26](#))
- 49/48 . . positioning shuttle in readiness for picking



49/50	. . Miscellaneous devices or arrangements concerning insertion of weft and not otherwise provided for	2700/0111	. . Double or multi-ply fabrics
49/52	. Shuttle boxes ( <a href="#">change-boxes D03D 43/00</a> )	2700/0114	. . . for conveyor belts, brakes, couplings, tyres or belts
49/54	. . Braking means; Swells	2700/0118	. . . for absorbing shocks
49/56	. . . Shuttle relief mechanisms, i.e. reducing shuttle swell pressure before picking	2700/0122	. . Tapes
49/58	. Shuttle guards	2700/0125	. . . for carrying liquids, e.g. typewriter tape
49/60	. Construction or operation of slay	2700/0129	. . . Memory tapes
49/62	. . Reeds mounted on slay	2700/0133	. . characterised by the material of warp or weft
49/64	. . wherein the slay dwells or moves slowly while the weft is being inserted	2700/0137	. . . Combination of different materials
49/66	. . Shuttle races	2700/014	. . . Warp or weft treated before weaving
49/68	. Reeds or beat-up combs not mounted on the slay ( <a href="#">loose reed stop motion D03D 51/42</a> )	2700/0144	. . . Use of threads with different characteristics for subsequent treatments
49/70	. Devices for cutting weft threads ( <a href="#">cutting weft in looms with automatic weft replenishment D03D 45/50</a> ; <a href="#">apparatus for slitting fabric D03J 1/08</a> )	2700/0148	. . . with glass, carbon or asbestos fibres
<b>51/00</b>	<b>Driving, starting, or stopping arrangements; Automatic stop motions {(loom control associated with fabric inspection on the loom D03J 1/007)}</b>	2700/0151	. . made of paper
51/002	. { <a href="#">Avoiding starting marks</a> }	2700/0155	. . Industrial fabrics
51/005	. { <a href="#">Independent drive motors (independent frame drives for dobbies D03C 1/146, for other shedding mechanisms D03C 13/02)</a> }	2700/0159	. . . Screens or filters
51/007	. { <a href="#">Loom optimisation</a> }	2700/0162	. . . Paper making felts
51/02	. General arrangements of driving mechanism	2700/0166	. . Fabrics with electric conductors
51/04	. Manual controls	2700/017	. . Cleaning fabrics or footmats
51/06	. using particular methods of stopping	2700/0174	. . Fabrics for special use
51/08	. . stopping at definite point in weaving cycle, or moving to such point after stopping	2700/0177	. . . Absorbing fabrics, e.g. for sanitary towels
51/085	. . . { <a href="#">Extraction of defective weft</a> }	2700/0181	. . . for neckties or shawls
51/10	. . stopping suddenly	2700/0185	. . . for linings
51/12	. for adjusting speed	2700/0188	. . . for curtains
51/14	. for reducing speed temporarily	2700/0192	. . Fabrics with beads
51/16	. for varying speed cyclically	2700/0196	. . Reinforced fabrics
51/18	. Automatic stop motions	2700/02	. Belts
51/20	. . Warp stop motions	2700/03	. Tubular fabrics or bags; Endless fabrics
51/22	. . . mechanical	2700/10	. Smallware looms
51/24	. . . . wherein droppers are suspended on individual warp threads or small groups of threads	2700/101	. . Devices for driving the shuttles
51/26	. . . . Detector healds	2700/103	. . Devices for weft insertion from fixed bobbins
51/28	. . . electrical	2700/105	. . Devices for forming the selvages
51/30	. . . . wherein droppers are suspended on individual warp threads or small groups of threads	2700/106	. . Devices for changing the shuttles or cops
51/32	. . . . Detector healds	2700/108	. . Devices for driving the warp or cloth beam
51/34	. . Weft stop motions	2700/12	. Looms for weaving two or more fabrics at the same time
51/36	. . . Centre weft forks	2700/14	. Looms in which bulk supply of weft does not pass through the shed
51/38	. . . Side weft forks	2700/1404	. . Weft bobbin supports
51/40	. . Shuttle stop motions	2700/1409	. . Transfer of weft to the shuttle
51/42	. . . Loose reed mechanisms	2700/1413	. . . Transfer or weft of different colours or types
51/44	. . acting on defective operation of loom mechanisms	2700/1418	. . . Simultaneous transfer of several wefts
51/46	. . . of shedding mechanisms	2700/1422	. . . with weft treatment, e.g. dyeing or twisting
		2700/1427	. . . Unwinding of weft from a fixed bobbin
		2700/1431	. . . Weft supplying or guiding
		2700/1436	. . . Weft tensioning devices
		2700/144	. . . Weft cutting devices
		2700/1445	. . . Weft braking devices
		2700/145	. . . Weft clamping devices
		2700/1454	. . . Weft controlling devices
		2700/1459	. . . Weft measuring and storing devices
		2700/1463	. . . Weft preparation by the action of a fluid, e.g. for accumulating or braking the weft
		2700/1468	. . . Transfer of weft after insertion
		2700/1472	. . Weft insertion
		2700/1477	. . . by gripper shuttles
		2700/1481	. . . . with forced movement
		2700/1486	. . . by means other than gripper shuttles
		2700/149	. . . . by needles
		2700/1495	. . . . by pneumatic or hydraulic means
		2700/16	. Circular looms
		2700/162	. . Weft inserting means
<b>2700/00</b>	<b>Woven fabrics; Methods of weaving; Looms</b>		
2700/01	. Woven fabrics; General weaving methods		
2700/0103	. . Elastic fabrics		
2700/0107	. . for collars or cuffs		

## D03D

- 2700/164 . . Beat-up means
- 2700/166 . . Shuttle changing means
- 2700/168 . . Driving mechanism for the warp or cloth beam;  
Shed forming devices
- 2700/19 . Take-up motions, also in combination with warp let-off mechanisms; Breast beams
- 2700/25 . Devices for weft changing in looms
- 2700/26 . Driving or stopping arrangements for looms
- 2700/265 . . Electric driving arrangements
- 2700/30 . Warp stop motions
- 2700/305 . . electrical
- 2700/31 . Weft stop motions, also combined with warp stop motions
- 2700/313 . . electrical
- 2700/316 . . Feeler devices for the weft or the shuttle
- 2700/50 . Pile-fabric looms; Pile fabrics
- 2700/53 . . Weaving of loop ribbons or chenille
- 2700/54 . . Wire-tapestry looms for warp pile fabrics
- 2700/58 . . Control devices for the warp pile
- 2700/60 . . Pile fabric weaving in general
- 2700/61 . . Fabrics for fasteners of the touch-and-close type
- 2700/80 . Weaving of metallic fabrics
- 2700/81 . . Shed forming devices
- 2700/82 . . Looms with fixed weft bobbins
- 2700/821 . . . Transfer of the weft from the bobbin to the insertion device
- 2700/823 . . . Transfer of the weft after insertion
- 2700/825 . . . Insertion of the weft
- 2700/826 . . . . by means of gripper shuttles
- 2700/828 . . . . by means of gripper needles
- 2700/83 . . Selvage forming
- 2700/84 . . Transport or guiding of the warp; Warp beams
- 2700/85 . . Cloth take-up mechanisms, also combined with warp let-off mechanisms; Breast beams
- 2700/86 . . Shuttle driving devices
- 2700/865 . . . Shuttles
- 2700/87 . . Arrangements for the slay; Construction of the slay
- 2700/88 . . Control devices; e.g. for weft or warp
- 2700/90 . Pickers or arresting means