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.

<table>
<thead>
<tr>
<th>Woven fabrics: Methods of weaving other than those characterised by the operation of a particular loom</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/00 Woven fabrics designed to make specified articles</td>
<td>5/00 Selvedges</td>
</tr>
<tr>
<td>1/0005 . [Woven fabrics for safety belts]</td>
<td>7/00 Woven fabrics designed to be resilient, i.e. to recover from compressive stress</td>
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<tr>
<td>1/0011 . [Woven fabrics for labels]</td>
<td>9/00 Open-work fabrics (ladder-tape fabrics D03D 1/08)</td>
</tr>
<tr>
<td>1/0017 . [Woven household fabrics]</td>
<td>11/00 Double or multi-ply fabrics not otherwise provided for</td>
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<tr>
<td>1/0023 . [Mobs or wipes]</td>
<td>11/02 . Fabrics formed with pockets, tubes, loops, folds, tucks, or flaps (fabrics for curtain heading tapes D03D 1/08; fabrics consisting of a single tube D03D 3/02)</td>
</tr>
<tr>
<td>1/0029 . [Doormats]</td>
<td>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</td>
</tr>
<tr>
<td>1/0035 . [Protective fabrics]</td>
<td>13/002 . [With diagonal warps or wefts]</td>
</tr>
<tr>
<td>1/0041 . [Cut or abrasion resistant]</td>
<td>13/004 . [With weave pattern being non-standard or providing special effects]</td>
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<tr>
<td>1/0047 . [Camouflage fabrics]</td>
<td>13/006 . [With additional leno yarn]</td>
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<tr>
<td>1/0052 . [Antiballistic fabrics]</td>
<td>13/008 . [Characterised by weave density or surface weight]</td>
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<td>1/0058 . [Electromagnetic radiation resistant]</td>
<td>15/00 Woven fabrics characterised by the material or construction of the yarn or other warp or weft elements used</td>
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<td>1/0064 . [Noise dampening]</td>
<td>15/0005 . [Antistatic fabrics]</td>
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<td>1/007 . [UV radiation protecting]</td>
<td>15/0011 . [using glass fibres]</td>
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<tr>
<td>1/0076 . [Photovoltaic fabrics]</td>
<td>15/0016 . [using threads comprising a mineral]</td>
</tr>
<tr>
<td>1/0082 . [Fabrics for printed circuit boards]</td>
<td>15/0022 . [using threads with beads]</td>
</tr>
<tr>
<td>1/0088 . [Fabrics having an electronic function]</td>
<td>15/0027 . [using bicomponent threads]</td>
</tr>
<tr>
<td>1/0094 . [Belts (D03D 1/0005 takes precedence)]</td>
<td>15/0033 . [using coloured threads]</td>
</tr>
<tr>
<td>1/02 . Inflatable articles</td>
<td>15/0038 . [using threads made of delicate fibres]</td>
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<tr>
<td>1/04 . Sack- or bag-like articles</td>
<td>15/0044 . [using knitted threads]</td>
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<tr>
<td>1/06 . Curtain heading tapes</td>
<td>15/005 . [using leather threads]</td>
</tr>
<tr>
<td>1/08 . Ladder tapes (ladder tapes for venetian blinds E06B 9/382)</td>
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<table>
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<th>Woven fabrics characterised by their shape</th>
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<tr>
<td>3/00 Tubular fabrics</td>
<td>15/0005 . [Antistatic fabrics]</td>
</tr>
<tr>
<td>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)]</td>
<td>15/0011 . [using glass fibres]</td>
</tr>
<tr>
<td>3/02 . Tubular fabrics</td>
<td>15/0016 . [using threads comprising a mineral]</td>
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<tr>
<td>3/04 . Endless fabrics</td>
<td>15/0022 . [using threads with beads]</td>
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<tr>
<td>3/06 . Fabrics of varying width</td>
<td>15/0027 . [using bicomponent threads]</td>
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<tr>
<td>3/08 . Arched, corrugated, or like fabrics</td>
<td>15/0033 . [using coloured threads]</td>
</tr>
<tr>
<td>15/0038 . [using threads made of delicate fibres]</td>
<td>15/0044 . [using knitted threads]</td>
</tr>
<tr>
<td>15/005 . [using leather threads]</td>
<td></td>
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</tbody>
</table>
particular looms

Looms; Methods of weaving characterised by the operation of a particular loom

D03D

15/0055 . [using magnetic threads]
15/0061 . [using threads with microdenier fibers]
15/0066 . [using threads with a noble metal]
15/0072 . [using paper threads]
15/0077 . [using fancy or textured threads (chenille yarns are in D03D 27/18)]
15/0083 . [using threads having a particular sectional shape]
15/0088 . . [Flat threads]
15/0094 . [using threads with different diameters]
15/02 . the warp or weft elements being of stiff material, e.g. wire, cane, slat
15/04 . woven to produce shapes or effects upon differential shrinkage
15/06 . using scaffolding threads, i.e. threads removed after weaving
15/08 . using stretchable or elastic threads (woven fabrics whose elastic or stretch properties are due to the manner of weaving D03D 17/00)
15/10 . using threads having high or low coefficients of friction
15/12 . using heat-resistant or fireproof threads
17/00 Woven fabrics having elastic or stretch properties due to manner of weaving (woven fabrics using stretchable or elastic threads D03D 15/08)
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)
39/00 Pile-fabric looms

39/02 . Axminster looms, i.e. wherein pile tufts are inserted during weaving
39/04 . . Spool Axminster looms
39/06 . . . Tuft yarn tube or spool frames
39/08 . . . Gripper Axminster looms
39/083 . . . [Selecting mechanisms]
39/086 . . . [Gripper details]
39/10 . Wire-tapestry looms, e.g. for weaving velvet or Brussels or Wilton carpets, the pile being formed over weltwise wires
39/12 . . Mechanisms for operating the pile wires
39/14 . . Construction of the pile wires, e.g. pile wires which cut
39/16 . . Double-plush looms, i.e. for weaving two pile fabrics face-to-face
39/18 . . Separating the two plush layers, e.g. by cutting
39/20 . . Looms forming pile over warpwise wires
39/22 . . Terry looms
39/223 . . . [Cloth control]
39/226 . . . [Sley control]
39/24 . . Devices for cutting the pile on the loom (pile wires which cut D03D 39/14; separating two plush layers D03D 39/18)
41/00 Looms not otherwise provided for, e.g. for weaving chenille yarn; Details peculiar to these looms
41/001 . . [Hair-cloth looms]
41/002 . . [Looms for weaving reed, straw or wood]
41/004 . . [Looms for three-dimensional fabrics]
41/005 . . [Linear-shed multiphase looms]
41/007 . . [Vertical looms]
41/008 . . [Looms for weaving flat yarns]
43/00 Looms with change-boxes
43/02 . . with drop boxes
43/04 . . . Operating mechanisms
43/06 . . with rotary boxes
43/08 . . . Operating mechanisms
43/10 . . . Weft catchers, i.e. means for preventing entanglement of wefts
45/00 Looms with automatic weft replenishment (automatic replenishment in smallware looms D03D 35/00, in circular looms D03D 37/00; bobbins rewound on loom D03D 1/12)
45/02 . . Controlling replenishment
45/04 . . . Pirn feelers or other detectors for initiating replenishment (weft stop motions D03D 51/34)
45/06 . . . . mechanical
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 D03D 51/40)
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
45/28 . . . for one type of thread, e.g. same colour
Looms; Methods of weaving characterised by the operation of particular looms

45/30 . . . . rotary
45/32 . . . for several types of thread, e.g. multicolour
45/34 . . Shuttle changing
45/36 . . fresh shuttle being substituted for spent shuttle in the same cell of shuttle box
45/38 . . Shuttle box with an extra cell which is used only during replenishment
45/40 . . the spent shuttle being received in the normal cell and the fresh shuttle being picked from the extra cell
45/42 . . the spent shuttle being received in the extra cell and the fresh shuttle being picked from the normal cell

45/44 . . Magazines
45/46 . . . for one type of thread, e.g. single colour
45/48 . . . for several types of threads, e.g. multicolour
45/50 . . Cutting, holding, manipulating, or disposing of, weft ends
45/52 . . Cutting weft of depleted shuttle near shuttle and holding the piece attached to the fabric
45/54 . . Cutting fresh weft and holding the piece attached to the fabric
45/56 . . Cutting depleted and fresh wefts at selvedge
45/58 . . Removing tip bunch or fresh weft end from fresh bobbin
45/60 . . substantially by air stream or suction
45/62 . . Disposing of waste pieces of cut weft end

47/00 Looms in which bulk supply of weft does not pass through shed, e.g. shuttleless looms, gripper shuttle looms, dummy shuttle looms (circular looms D03D 37/00)

47/02 . . wherein loops of continuous weft thread are inserted, i.e. double picks
47/04 . . by a reciprocating needle having a permanently-threaded eye
47/06 . . by a pivoted needle having a permanently-threaded eye
47/08 . . the path of the needle being modified by cams, linkages, or other means
47/10 . . by a forked needle pushing loop of weft through shed
47/12 . . wherein single picks of weft thread are inserted, i.e. with shedding between each pick
47/125 . . . (Weft holding devices (if the weft is reinserted in the next shed D03D 47/48; in jet looms D03D 47/308))
47/14 . . by a gripper needle taking the end of the weft through the shed
47/16 . . by a gripper needle entering the shed empty and drawing the weft as it retracts
47/18 . . two weft inserters meeting at or near the middle of the shed and transferring the weft from one to the other
47/20 . . Constructional features of the thread-engaging device on the inserters
47/22 . . . adapted for working a loop of weft part-way inserted in the shed and then straightened-out
47/23 . . . Thread grippers (in dummy or gripper shuttles D03J 5/06)
47/233 . . . (Carrying grippers)
47/236 . . . (Drawing grippers)

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 feeding devices, e.g. stopping pins (D03D 36/75 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]
Looms; Methods of weaving characterised by the operation of particular looms

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 selvedges
47/42 . . . . by knitting or interlacing loops of weft
47/44 . . . . with additional selvedge thread
47/46 . . . . by selvedge shuttle or other device passing selvedge 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

50/00 Driving, starting, or stopping arrangements; Automatic stop motions {loom control associated with fabric inspection on the loom D03J 1/007}

51/00 Driving, starting, or stopping arrangements; Automatic stop motions {loom control associated with fabric inspection on the loom D03J 1/007}

51/002 . . . . [Avoiding starting marks]
51/005 . . . . [Independent drive motors (independent frame drives for dobies D03C 1/146, for other shedding mechanisms D03C 13/02)]
51/007 . . . . [Loom optimisation]
51/012 . . . . General arrangements of driving mechanism
51/04 . . . . Manual controls
51/06 . . . . using particular methods of stopping
51/08 . . . . stopping at definite point in weaving cycle, or moving to such point after stopping
51/085 . . . . [Extraction of defective weft]
51/10 . . . . stopping suddenly
51/12 . . . . for adjusting speed
51/14 . . . . for reducing speed temporarily
51/16 . . . . for varying speed cyclically
51/18 . . . . Automatic stop motions
51/20 . . . . Warp stop motions
51/22 . . . . mechanical
51/24 . . . . wherein droppers are suspended on individual warp threads or small groups of threads
51/26 . . . . Detector heads
51/28 . . . . electrical
51/30 . . . . wherein droppers are suspended on individual warp threads or small groups of threads
51/32 . . . . Detector heads
51/34 . . . . Weft stop motions
51/36 . . . . Centre weft forks
51/38 . . . . Side weft forks
51/40 . . . . Shuttle stop motions
51/42 . . . . Loose reed mechanisms
51/44 . . . . acting on defective operation of loom mechanisms
51/46 . . . . of shedding mechanisms

2700/00 Woven fabrics; Methods of weaving; Looms
2700/01 . . . Woven fabrics; General weaving methods
2700/0103 . . . Elastic fabrics
2700/0107 . . . for collars or cuffs
<table>
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<th>CPC</th>
<th>Description</th>
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<td>2700/0111</td>
<td>Double or multi-ply fabrics</td>
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<tr>
<td>2700/0114</td>
<td>for conveyor belts, brakes, couplings, tyres or belts</td>
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<td>2700/0118</td>
<td>for absorbing shocks</td>
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<td>2700/0122</td>
<td>Tapes</td>
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<td>2700/0125</td>
<td>for carrying liquids, e.g. typewriter tape</td>
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<td>2700/0129</td>
<td>Memory tapes</td>
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<td>2700/0133</td>
<td>characterised by the material of warp or weft</td>
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<td>2700/0137</td>
<td>Combination of different materials</td>
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<td>2700/014</td>
<td>Warp or weft treated before weaving</td>
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<td>2700/0144</td>
<td>Use of threads with different characteristics for subsequent treatments</td>
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<td>2700/0148</td>
<td>with glass, carbon or asbestos fibres</td>
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<td>2700/0151</td>
<td>made of paper</td>
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<td>2700/0155</td>
<td>Industrial fabrics</td>
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<td>2700/0159</td>
<td>Screens or filters</td>
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<td>Cleaning fabrics or footmats</td>
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<td>2700/0174</td>
<td>Fabrics for special use</td>
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<td>2700/0177</td>
<td>Absorbing fabrics, e.g. for sanitary towels</td>
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<td>2700/0181</td>
<td>for neckties or shawls</td>
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<td>2700/0185</td>
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<td>2700/103</td>
<td>Devices for weft insertion from fixed bobbins</td>
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<td>2700/105</td>
<td>Devices for forming the selvedges</td>
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<td>2700/106</td>
<td>Devices for changing the shuttles or cops</td>
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<td>2700/108</td>
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<td>Transfer or weft of different colours or types</td>
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<td>2700/1418</td>
<td>Simultaneous transfer of several wefts</td>
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<td>2700/1422</td>
<td>with weft treatment, e.g. dyeing or twisting</td>
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<td>Unwinding of weft from a fixed bobbin</td>
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<td>Weft braking devices</td>
</tr>
<tr>
<td>2700/145</td>
<td>Weft clamping devices</td>
</tr>
<tr>
<td>2700/1454</td>
<td>Weft controlling devices</td>
</tr>
<tr>
<td>2700/1459</td>
<td>Weft measuring and storing devices</td>
</tr>
<tr>
<td>2700/1463</td>
<td>Weft preparation by the action of a fluid, e.g. for accumulating or braking the weft</td>
</tr>
<tr>
<td>2700/1468</td>
<td>Transfer of weft after insertion</td>
</tr>
<tr>
<td>2700/1472</td>
<td>Weft insertion</td>
</tr>
<tr>
<td>2700/1477</td>
<td>by gripper shuttles</td>
</tr>
<tr>
<td>2700/1481</td>
<td>with forced movement</td>
</tr>
<tr>
<td>2700/1486</td>
<td>by means other than gripper shuttles</td>
</tr>
<tr>
<td>2700/149</td>
<td>by needles</td>
</tr>
<tr>
<td>2700/1495</td>
<td>by pneumatic or hydraulic means</td>
</tr>
<tr>
<td>2700/16</td>
<td>Circular looms</td>
</tr>
<tr>
<td>2700/162</td>
<td>Weft inserting means</td>
</tr>
</tbody>
</table>