

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, 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.

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 . . {Mops 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 Selvedges

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

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 or construction of the yarn or other warp or weft elements used

15/0005

- . {Antistatic fabrics}

15/0011

- . {using glass fibres}

15/0016

- . {using threads comprising a mineral}

15/0022

- . {using threads with beads}

15/0027

- . {using bicomponent threads}

15/0033

- . {using coloured threads}

15/0038

- . {using threads made of delicate fibers}

15/0044

- . {using knitted threads}

15/005

- . {using leather threads}

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	39/10	• Wire-tapestry looms, e.g. for weaving velvet or Brussels or Wilton carpets, the pile being formed over weftwise wires
15/04	• woven to produce shapes or effects upon differential shrinkage	39/12	• • Mechanisms for operating the pile wires
15/06	• using scaffolding threads, i.e. threads removed after weaving	39/14	• • Construction of the pile wires, e.g. pile wires which cut
15/08	• using stretchable or elastic threads (woven fabrics whose elastic or stretch properties are due to the manner of weaving D03D 17/00)	39/16	• Double-plush looms, i.e. for weaving two pile fabrics face-to-face
15/10	• using threads having high or low coefficients of friction	39/18	• • Separating the two plush layers, e.g. by cutting
15/12	• using heat-resistant or fireproof threads	39/20	• Looms forming pile over warpwise wires
17/00	Woven fabrics having elastic or stretch properties due to manner of weaving (fabrics using stretchable or elastic threads D03D 15/08)	39/22	• Terry looms
19/00	Gauze or leno-woven fabrics	39/223	• • {Cloth control}
21/00	Lappet- or swivel-woven fabrics	39/226	• • {Sley control}
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	39/24	• Devices for cutting the pile on the loom (pile wires which cut D03D 39/14 ; separating two plush layers D03D 39/18)
25/00	Woven fabrics not otherwise provided for	41/00	Looms not otherwise provided for, e.g. for weaving chenille yarn; Details peculiar to these looms
25/005	• {Three-dimensional woven fabrics}	41/001	• {Hair-cloth looms}
27/00	Woven pile fabrics	41/002	• {Looms for weaving reed, straw or wood}
27/02	• wherein the pile is formed by warp or weft	41/004	• {Looms for three-dimensional fabrics}
27/04	• • Weft pile fabrics	41/005	• {Linear-shed multiphase looms}
27/06	• • Warp pile fabrics	41/007	• {Vertical looms}
27/08	• • • Terry fabrics	41/008	• {Looms for weaving flat yarns}
27/10	• • Fabrics woven face-to-face, e.g. double velvet	43/00	Looms with change-boxes
27/12	• wherein pile tufts are inserted during weaving	43/02	• with drop boxes
27/14	• • with tufts around warps	43/04	• • Operating mechanisms
27/16	• • with tufts around wefts	43/06	• with rotary boxes
27/18	• Chenille fabrics	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 D03J 1/12)
Looms; Methods of weaving characterised by the operation of particular looms		45/02	• Controlling replenishment
29/00	Hand looms	45/04	• • Pirn feelers or other detectors for initiating replenishment (weft stop motions D03D 51/34)
31/00	Lappet, swivel or other looms for forming embroidery-like decoration on fabrics	45/06	• • • mechanical
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)	45/08	• • • • of the side-slip type
35/00	Smallware looms, i.e. looms for weaving ribbons or other narrow fabrics (D03D 47/00 takes precedence)	45/10	• • • electrical
35/005	• {Shuttles}	45/12	• • • optical
37/00	Circular looms (looms for weaving separate fabrics disposed in a circle or polygon D03D 33/00)	45/14	• • Storing the need for replenishment or the colour required until the spent shuttle returns to the replenishing end of the loom
39/00	Pile-fabric looms	45/16	• • • selecting thereby weft of correct colour
39/02	• Axminster looms, i.e. wherein pile tufts are inserted during weaving	45/18	• • Shuttle feelers or other devices for preventing replenishment if shuttle is incorrectly positioned in shuttle box (shuttle stop motions D03D 51/40)
39/04	• • Spool Axminster looms	45/20	• Changing bobbins, cops, or other shuttle stock
39/06	• • • Tuft yarn tube or spool frames	45/22	• • effected with shuttle in normal shuttle box
39/08	• • Gripper Axminster looms	45/24	• • effected otherwise than in normal box
39/083	• • • {Selecting mechanisms}	45/26	• • Magazines
39/086	• • • {Gripper details}	45/28	• • • for one type of thread, e.g. same colour
		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	47/262	. . . {Shedding, weft insertion or beat-up mechanisms}
45/42	. . . the spent shuttle being received in the extra cell and the fresh shuttle being picked from the normal cell	47/263	. . . . {Weft insertion and beat-up mechanisms}
45/44	. . Magazines	47/265	. . . . {Beat-up mechanisms (D03D 47/263 takes precedence)}
45/46	. . . for one type of thread, e.g. single colour	47/266	. . . . {Weft insertion mechanisms (D03D 47/263 takes precedence)}
45/48	. . . for several types of threads, e.g. multicolour	47/267	. . . . {Shedding mechanisms}
45/50	. Cutting, holding, manipulating, or disposing of, weft ends	47/268	. . . {Mechanisms for compensating warp tension}
45/52	. . Cutting weft of depleted shuttle near shuttle and holding the piece attached to the fabric	47/27	. Drive or guide mechanisms for weft inserting
45/54	. . Cutting fresh weft and holding the piece attached to the fabric	47/271	. . {Rapiers}
45/56	. . Cutting depleted and fresh wefts at selvage	47/272	. . . {Rapier bands}
45/58	. . Removing tip bunch or fresh weft end from fresh bobbin	47/273	. . . {Rapier rods}
45/60	. . . substantially by air stream or suction	47/275	. . {Drive mechanisms}
45/62	. . Disposing of waste pieces of cut weft end (D03D 45/58 takes precedence)	47/276	. . . {Details or arrangement of sprocket wheels}
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)	47/277	. . {Guide mechanisms (for shuttles D03D 49/24)}
47/02	. wherein loops of continuous weft thread are inserted, i.e. double picks	47/278	. . . {for pneumatic looms}
47/04	. . by a reciprocating needle having a permanently-threaded eye	47/28	. wherein the weft itself is projected into the shed
47/06	. . by a pivoted needle having a permanently-threaded eye	47/30	. . by gas jet
47/08	. . . the path of the needle being modified by cams, linkages, or other means	47/3006	. . . {Construction of the nozzles}
47/10	. . by a forked needle pushing loop of weft through shed	47/3013	. . . . {Main nozzles}
47/12	. wherein single picks of weft thread are inserted, i.e. with shedding between each pick	47/302	. . . . {Auxiliary nozzles}
47/125	. . {Weft holding devices (if the weft is reinserted in the next shed D03D 47/48 ; in jet looms D03D 47/308)}	47/3026	. . . {Air supply systems}
47/14	. . by a gripper needle taking the end of the weft through the shed	47/3033	. . . . {Controlling the air supply}
47/16	. . by a gripper needle entering the shed empty and drawing the weft as it retracts	47/304	. . . . . {Controlling of the air supply to the auxiliary nozzles}
47/18	. . two weft inserters meeting at or near the middle of the shed and transferring the weft from one to the other	47/3046	. . . . . {Weft yarn selection}
47/20	. . Constructional features of the thread-engaging device on the inserters	47/3053	. . . . {Arrangements or lay out of air supply systems}
47/22	. . . adapted for working a loop of weft part-way inserted in the shed and then straightened-out	47/306	. . . . {Construction or details of parts, e.g. valves, ducts}
47/23	. . . Thread grippers (in dummy or gripper shuttles D03J 5/06)	47/3066	. . . {Control or handling of the weft at or after arrival}
47/233	. . . . {Carrying grippers}	47/3073	. . . . {Detection means therefor}
47/236	. . . . {Drawing grippers}	47/308	. . . . {Stretching or holding the weft}
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)	47/3086	. . . . {Weft removal (extraction of defective weft after stopping at definite point in weaving cycle D03D 51/085)}
47/25	. . . inserted from only one side of loom	47/3093	. . . {Displaying data}
47/26	. . Travelling-wave-shed looms	47/32	. . by liquid jet
47/261	. . . {Preparation of weft}	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
- 49/52 . Shuttle boxes ([change-boxes D03D 43/00](#))
- 49/54 . . Braking means; Swells
- 49/56 . . . Shuttle relief mechanisms, i.e. reducing shuttle swell pressure before picking
- 49/58 . Shuttle guards
- 49/60 . Construction or operation of slay
- 49/62 . . Reeds mounted on slay
- 49/64 . . wherein the slay dwells or moves slowly while the weft is being inserted
- 49/66 . . Shuttle races
- 49/68 . Reeds or beat-up combs not mounted on the slay ([loose reed stop motion D03D 51/42](#))
- 49/70 . Devices for cutting weft threads ([cutting weft in looms with automatic weft replenishment D03D 45/50](#); [apparatus for slitting fabric D03J 1/08](#))
- 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}
 - WARNING**
 - Not complete, see [D03D 51/00](#)
- 51/005 . {Independent drive motors (independent frame drives for dobbies [D03C 1/146](#), for other shedding mechanisms [D03C 13/02](#))}
 - WARNING**
 - Not complete pending the completion of a reclassification, see also groups [D03D 51/00](#) and [D03D 51/02](#)
- 51/007 . {Loom optimisation}
 - WARNING**
 - Not complete pending the completion of a reclassification, see also groups [D03D 51/00](#) and [D03D 51/02](#)
- 51/02 . 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 healds
- 51/28 . . . electrical
- 51/30 wherein droppers are suspended on individual warp threads or small groups of threads
- 51/32 Detector healds
- 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
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- 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
- 2700/0111 . . Double or multi-ply fabrics
- 2700/0114 . . . for conveyor belts, brakes, couplings, tyres or belts
- 2700/0118 . . . for absorbing shocks
- 2700/0122 . . Tapes
- 2700/0125 . . . for carrying liquids, e.g. typewriter tape
- 2700/0129 . . . Memory tapes
- 2700/0133 . . characterised by the material of warp or weft
- 2700/0137 . . . Combination of different materials
- 2700/014 . . . Warp or weft treated before weaving
- 2700/0144 . . . Use of threads with different characteristics for subsequent treatments
- 2700/0148 . . . with glass, carbon or asbestos fibres
- 2700/0151 . . made of paper
- 2700/0155 . . Industrial fabrics
- 2700/0159 . . . Screens or filters
- 2700/0162 . . . Paper making felts
- 2700/0166 . . Fabrics with electric conductors
- 2700/017 . . Cleaning fabrics or footmats
- 2700/0174 . . Fabrics for special use
- 2700/0177 . . . Absorbing fabrics, e.g. for sanitary towels
- 2700/0181 . . . for neckties or shawls
- 2700/0185 . . . for linings
- 2700/0188 . . . for curtains
- 2700/0192 . . Fabrics with beads
- 2700/0196 . . Reinforced fabrics
- 2700/02 . Belts
- 2700/03 . Tubular fabrics or bags; Endless fabrics
- 2700/10 . Smallware looms
- 2700/101 . . Devices for driving the shuttles
- 2700/103 . . Devices for weft insertion from fixed bobbins
- 2700/105 . . Devices for forming the selvages
- 2700/106 . . Devices for changing the shuttles or cops
- 2700/108 . . Devices for driving the warp or cloth beam
- 2700/12 . Looms for weaving two or more fabrics at the same time
- 2700/14 . Looms in which bulk supply of weft does not pass through the shed
- 2700/1404 . . Weft bobbin supports
- 2700/1409 . . Transfer of weft to the shuttle
- 2700/1413 . . . Transfer of weft of different colours or types
- 2700/1418 . . . Simultaneous transfer of several wefts
- 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
- 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