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

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<td>1/08</td>
<td>Ladder tapes (ladder tapes for venetian blinds E06B 9/382)</td>
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</table>

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]
Woven fabrics; Methods of weaving other than those 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
45/24

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

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

D03D 39/00 . 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 D03J 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

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 . 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 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

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Looms: Methods of weaving characterised by the operation of particular looms

49/02 Construction of loom framework

**WARNING**

This group is in the process of being reorganised to its subgroups

49/03 [Protective hoods or curtains]
49/05 [Ground supports]
49/06 [Arrangements or means for noise reduction]
49/07 Control of the tension in warp or cloth
49/08 Warp let-off mechanisms (construction of warp beam D02H)
49/10 Warp beam brakes
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 whereby 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)]

51/02 [Avoiding starting marks]
51/05 [Independent drive motors (independent frame drives for dobby D03C 1/146; for other shedding mechanisms D03C 13/02)]
51/07 [Loom optimisation]
51/08 General arrangements of driving mechanism
51/09 Manual controls
51/10 using particular methods of stopping
51/16 stopping at definite point in weaving cycle, or moving to such point after stopping

51/085 [Extraction of defective weft]
51/12 stopping suddenly
51/14 for adjusting speed
51/16 for reducing speed temporarily
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
Circular looms through the shed
Looms in which bulk supply of weft does not pass
time
Looms for weaving two or more fabrics at the same
Smallware looms
Belts
Weft inserting means
Weft insertion
Transfer of weft to the shuttle
Devices for driving the warp or cloth beam
Devices for forming the selvedges
Devices for weft insertion from fixed bobbins
Devices for driving the shuttles
Reinforced fabrics
Fabrics with beads
Fabrics with glass, carbon or asbestos fibres
made of paper
Industrial fabrics
Screens or filters
Paper making felts
Fabrics with electric conductors
Cleaning fabrics or footmats
Fabrics for special use
Absorbing fabrics, e.g. for sanitary towels
for neckties or shawls
for linings
for curtains
Fabrics with beads
Fabrics with reinforced fabrics
Belts
Tubular fabrics or bags; Endless fabrics
Smallware looms
Devices for driving the shuttles
Devices for weft insertion from fixed bobbins
Devices for forming the selvedges
Devices for changing the shuttles or cops
Devices for driving the warp or cloth beam
Looms for weaving two or more fabrics at the same
time
Looms in which bulk supply of weft does not pass
through the shed
Wef bobbin supports
Transfer of weft to the shuttle
Transfer or weft of different colours or types
Simultaneous transfer of several wefts
with weft treatment, e.g. dyeing or twisting
Unwinding of weft from a fixed bobbin
Wef supplying or guiding
Wef tensioning devices
Wef cutting devices
Wef braking devices
Wef clamping devices
Wef controlling devices
Wef measuring and storing devices
Wef preparation by the action of a fluid, e.g.
for accumulating or braking the weft
Transfer of weft after insertion
Transfer of the weft from the bobbin to the
insertion device
Transfer of the weft after insertion
Insertion of the weft
by means of gripper shuttles
by means of gripper needles
Selvedge forming
Transport or guiding of the warp; Warp beams
Cloth take-up mechanisms, also combined with
warp let-off mechanisms; Breast beams
Shuttle driving devices
Shuttles
Arrangements for the slay; Construction of the
slay
Control devices; e.g. for weft or warp
Pickers or arresting means
Beat-up means
Shuttle changing means
Driving mechanism for the warp or cloth beam;
Shed forming devices
Take-up motions, also in combination with warp let-
off mechanisms; Breast beams
Devices for weft changing in looms
Driving or stopping arrangements for looms
Electric driving arrangements
Warp stop motions
electrical
Weft stop motions, also combined with warp stop
motions
electrical
Feeler devices for the weft or the shuttle
Pile-fabric looms; Pile fabrics
Weaving of loop ribbons or chenille
Wire-tapestry looms for warp pile fabrics
Control devices for the warp pile
Pile fabric weaving in general
Fabrics for fasteners of the touch-and-close type
Weaving of metallic fabrics
Shed forming devices
Looms with fixed weft bobbins
Transfer of the weft from the bobbin to the
insertion device
Transfer of the weft after insertion
Insertion of the weft
by means of gripper shuttles
by means of gripper needles
Selvedge forming
Transport or guiding of the warp; Warp beams
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