

SECTION D — TEXTILES; PAPER

D03 WEAVING

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

Subclass index

SHEDDING MECHANISMS

Dobbies; jacquards; cam and other direct-acting mechanisms.....	1/00, 3/00, 5/00
Healds.....	9/00
Selvedge mechanisms not forming part of shedding mechanisms.....	11/00
Other shedding mechanisms.....	7/00, 13/00

PATTERN CARDS OR CHAINS; CARD-PUNCHING; METHODS OR DEVICES FOR PREPARING

PATTERNS.....	15/00, 17/00, 19/00
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| 1/00 Dobbies [1, 2006.01] | 3/00 Jacquards (controlling jacquard by scanning design D03C 17/06; for gripper Axminster looms D03D 39/08) [1, 2006.01] |
| 1/02 • Single-lift dobbies, i.e. dobbies in which the same draw-knife or equivalent operates for every pick (D03C 1/10 takes precedence) [1, 2006.01] | 3/02 • Single-lift jacquards [1, 2006.01] |
| 1/04 • • Open-shed single-lift dobbies [1, 2006.01] | 3/04 • • of open-shed type [1, 2006.01] |
| 1/06 • Double-lift dobbies, i.e. dobbies in which separate draw-knives or equivalent operate on alternate picks [1, 2006.01] | 3/06 • Double-lift jacquards [1, 2006.01] |
| 1/08 • • reversible, i.e. correct sheds open automatically when the loom is driven backwards [1, 2006.01] | 3/08 • • of open-shed type [1, 2006.01] |
| 1/10 • Centre-shed dobbies, i.e. shed formed by lifting some threads and lowering the others from central shed-closed position [1, 2006.01] | 3/10 • Centre-shed jacquards [1, 2006.01] |
| 1/12 • Dobbies employing toothed gearing instead of draw-knives [1, 2006.01] | 3/12 • Multiple-shed jacquards, i.e. jacquards which move warp threads to several different heights, e.g. for weaving pile fabrics [1, 2006.01] |
| 1/14 • Features common to dobbies of different types (stop motions acting on defective operation of shedding mechanisms D03D 51/46) [1, 2006.01] | 3/14 • Jacquards not employing lifting-hooks, e.g. employing knotted cords in conjunction with keyhole slots [1, 2006.01] |
| 1/16 • • Arrangements of dobbie in relation to loom [1, 2006.01] | 3/16 • Verdol or other jacquards having intermediate power-operated needles between reading needles and lifting-hooks [1, 2006.01] |
| 1/18 • • Knives; Knife frames [1, 2006.01] | 3/18 • Selvedge jacquards [1, 2006.01] |
| 1/20 • • Hooks; Lifters [1, 2006.01] | 3/20 • Electrically-operated jacquards [1, 2006.01] |
| 1/22 • • Needles; Needle boxes; Needle boards [1, 2006.01] | 3/22 • Fluid-operated jacquards [1, 2006.01] |
| 1/24 • • Cylinders; Cylinder battens [1, 2006.01] | 3/24 • Features common to jacquards of different types [1, 2006.01] |
| 1/26 • • Facilitating engagement of lifting-hooks with draw-knives [1, 2006.01] | 3/26 • • General arrangements of jacquards, or disposition in relation to loom [1, 2006.01] |
| 1/28 • • • by creating and then eliminating back-lash between hooks and knives [1, 2006.01] | 3/28 • • Pick-finding arrangements; Arrangements for preventing next shed from being opened during stopping of loom [1, 2006.01] |
| 1/30 • • • wherein all the hooks are disengaged from the knives, and selected hooks then re-engaged [1, 2006.01] | 3/30 • • Arrangements wherein hooks are positively operated to close shed [1, 2006.01] |
| 1/32 • • • wherein all the hooks are engaged with the knives, and unselected hooks then disengaged [1, 2006.01] | 3/32 • • Jacquard driving mechanisms [1, 2006.01] |
| 1/34 • • Arrangements wherein warp threads pass one another at different heights to avoid congestion [1, 2006.01] | 3/34 • • • Cylinder operating mechanisms [1, 2006.01] |
| 1/36 • • Card- or chain-saving arrangements, e.g. cross-border dobbies [1, 2006.01] | 3/36 • • • Griffe operating mechanisms [1, 2006.01] |
| | 3/38 • • Comber boards [1, 2006.01] |
| | 3/40 • • Constructions of lifting-cords [1, 2006.01] |
| | 3/42 • • Arrangements of lifting-cords [1, 2006.01] |
| | 3/44 • • Lingoos [1, 2006.01] |
| | 5/00 Cam or other direct-acting shedding mechanisms, i.e. operating heald frames without intervening power-supplying devices [1, 2006.01] |
| | 5/02 • operated by rotating cams [1, 2006.01] |

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- 5/04 • • Construction or shape of cams (cams in general F16H 53/00) [1, 2006.01]
- 5/06 • operated by cam devices other than rotating cams [1, 2006.01]
- 7/00 Leno or similar shedding mechanisms [1, 2006.01]**
- 7/02 • Gauze healds [1, 2006.01]
- 7/04 • Mechanisms having discs oscillating about a weftwise axis and having apertures for warp threads [1, 2006.01]
- 7/06 • Mechanisms having eyed needles for moving warp threads from side to side of other warp threads [1, 2006.01]
- 7/08 • Devices for twisting warp threads repeatedly in the same direction [1, 2006.01]
- 9/00 Healds; Heald frames** (for leno shedding D03C 7/00) [1, 2006.01]
- 9/02 • Healds [1, 2006.01]
- 9/04 • • Metal healds [1, 2006.01]
- 9/06 • Heald frames [1, 2006.01]
- 11/00 Selvedge shedding mechanisms not forming part of main shedding mechanism** (selvedge jacquards D03C 3/18; leno selvedge mechanism D03C 7/00) [1, 2006.01]
- 13/00 Shedding mechanisms not otherwise provided for [1, 2006.01]**
- 15/00 Pattern cards or chains [1, 2006.01]**
- 15/02 • Chains of metal, wood, or similar material with projecting pattern-indicating elements [1, 2006.01]
- 15/04 • Cards or paper perforated to indicate pattern [1, 2006.01]
- 15/06 • Apparatus for setting pegs in, or removing pegs from, pattern cards [1, 2006.01]
- 15/08 • Apparatus for interconnecting, e.g. by lacing, or disconnecting pattern cards [1, 2006.01]
- 17/00 Card-punching apparatus** (marking record carriers in digital fashion G06K) [1, 2006.01]
- 17/02 • manually-controlled, i.e. holes to be punched determined by the operator [1, 2006.01]
- 17/04 • • power-operated [1, 2006.01]
- 17/06 • automatic, i.e. design scanned optically or otherwise to control punching apparatus or to control loom jacquard directly [1, 2006.01]
- 19/00 Methods or devices concerned with designing or making patterns, not provided for in other groups of this subclass [1, 2006.01]**

D03D WOVEN FABRICS; METHODS OF WEAVING; LOOMS

Note(s)

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

Subclass index

WOVEN FABRICS OR CORRESPONDING WEAVING METHODS

Characterised by: the construction of the yarn or the material; their shape; their resiliency; their

elasticity..... 15/00, 3/00, 7/00, 17/00

Kinds of woven fabrics

open-work fabrics; woven pile fabrics; gauze; lappet- or swivel-woven.....9/00, 27/00, 19/00, 21/00

with special disposition of warp or weft threads; multi-ply fabrics not otherwise provided for.....13/00, 11/00

for specified articles..... 1/00

other kinds.....25/00

Selvedges..... 5/00, 47/40

General weaving methods not special to a particular fabric or loom.....23/00

LOOMS OR CORRESPONDING METHODS OF WEAVING

Hand looms.....29/00

Characterised by the article to be woven: lappet or swivel type for embroidery-like decoration; for

narrow ribbon-like fabrics; for pile fabric; other types for other kinds of fabrics.....31/00, 35/00, 39/00, 41/00

Characterised by their construction: circular; with change-boxes; with automatic weft replenishment; of

shuttleless type..... 37/00, 43/00, 45/00, 47/00

Multiple looms..... 33/00

General details and constructional features.....49/00

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

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, 2006.01]**
- 1/02 • Inflatable articles [1, 2006.01]
- 1/04 • Sack- or bag-like articles [1, 2006.01]
- 1/06 • Curtain heading tapes [1, 2006.01]
- 1/08 • Ladder tapes (ladder tapes for venetian blinds E06B 9/382) [1, 2006.01]
- 3/00 Woven fabrics characterised by their shape [1, 2006.01]**
- 3/02 • Tubular fabrics [1, 2006.01]
- 3/04 • Endless fabrics [1, 2006.01]
- 3/06 • Fabrics of varying width [1, 2006.01]
- 3/08 • Arched, corrugated, or like fabrics [1, 2006.01]
- 5/00 Selvedges [1, 2006.01]**
- 7/00 Woven fabrics designed to be resilient, i.e. to recover from compressive stress [1, 2006.01]**
- 9/00 Open-work fabrics (ladder-tape fabrics D03D 1/08) [1, 2006.01]**
- 11/00 Double or multi-ply fabrics not otherwise provided for [1, 2006.01]**
- 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) [1, 2006.01]
- 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 [1, 2006.01]**
- 15/00 Woven fabrics characterised by the material, structure or properties of the fibres, filaments, yarns, threads or other warp or weft elements used [1, 2006.01, 2021.01]**
- 15/20 • characterised by the material of the fibres or filaments constituting the yarns or threads [2021.01]
- 15/208 • • cellulose-based [2021.01]
- 15/217 • • • natural from plants, e.g. cotton [2021.01]
- 15/225 • • • artificial, e.g. viscose [2021.01]
- 15/233 • • • protein-based, e.g. wool or silk [2021.01]
- 15/242 • • • inorganic, e.g. basalt [2021.01]
- 15/25 • • • Metal [2021.01]
- 15/258 • • • • Noble metal [2021.01]
- 15/267 • • • • Glass [2021.01]
- 15/275 • • • • Carbon fibres [2021.01]
- 15/283 • • synthetic polymer-based, e.g. polyamide or polyester fibres (cellulose-based artificial fibres D03D 15/225) [2021.01]
- 15/292 • • Conjugate, i.e. bi- or multicomponent, fibres or filaments [2021.01]
- 15/30 • characterised by the structure of the fibres or filaments [2021.01]
- 15/33 • • Ultrafine fibres, e.g. microfibres or nanofibres [2021.01]
- 15/37 • • with specific cross-section or surface shape [2021.01]
- 15/40 • characterised by the structure of the yarns or threads [2021.01]
- 15/41 • • with specific twist [2021.01]
- 15/43 • • with differing diameters [2021.01]
- 15/44 • • with specific cross-section or surface shape [2021.01]
- 15/46 • • • Flat yarns, e.g. tapes or films [2021.01]
- 15/47 • • multicomponent, e.g. blended yarns or threads (multicomponent fibres or filaments D03D 15/292) [2021.01]
- 15/49 • • textured (chenille D03D 27/18); curled; crimped [2021.01]
- 15/50 • characterised by the properties of the yarns or threads [2021.01]
- 15/507 • • magnetic [2021.01]
- 15/513 • • heat-resistant or fireproof [2021.01]
- 15/52 • • thermal insulating, e.g. heating or cooling [2021.01]
- 15/527 • • waterproof or water repellent [2021.01]
- 15/533 • • antistatic; electrically conductive [2021.01]
- 15/54 • • coloured [2021.01]
- 15/547 • • with optical functions other than colour, e.g. comprising light-emitting fibres [2021.01]
- 15/553 • • • with metallic effect (metal D03D 15/25) [2021.01]
- 15/56 • • elastic [2021.01]
- 15/567 • • Shapes or effects upon shrinkage [2021.01]
- 15/573 • • Tensile strength [2021.01]
- 15/58 • • characterised by the coefficients of friction [2021.01]
- 15/587 • • adhesive; fusible [2021.01]
- 15/593 • • Stiff materials, e.g. cane or slat [2021.01]
- 15/60 • characterised by the warp or weft elements other than yarns or threads [2021.01]
- 15/62 • • Cords or ropes [2021.01]
- 15/63 • • Straps, e.g. leather straps [2021.01]
- 15/65 • • Paper [2021.01]
- 15/67 • • Metal wires [2021.01]
- 15/68 • • Scaffolding threads, i.e. threads removed after weaving [2021.01]
- 17/00 Woven fabrics having elastic or stretch properties due to manner of weaving (fabrics using stretchable or elastic threads D03D 15/56) [1, 2006.01]**
- 19/00 Gauze or leno-woven fabrics [1, 2006.01]**
- 21/00 Lappet- or swivel-woven fabrics [1, 2006.01]**
- 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 [1, 2006.01]**
- 25/00 Woven fabrics not otherwise provided for [1, 2006.01]**
- 27/00 Woven pile fabrics [1, 2006.01]**
- 27/02 • wherein the pile is formed by warp or weft [1, 2006.01]
- 27/04 • • Weft pile fabrics [1, 2006.01]
- 27/06 • • Warp pile fabrics [1, 2006.01]
- 27/08 • • • Terry fabrics [1, 2006.01]
- 27/10 • • Fabrics woven face-to-face, e.g. double velvet [1, 2006.01]
- 27/12 • wherein pile tufts are inserted during weaving [1, 2006.01]
- 27/14 • • with tufts around warps [1, 2006.01]
- 27/16 • • with tufts around wefts [1, 2006.01]
- 27/18 • Chenille fabrics [1, 2006.01]

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

- 29/00 Hand looms [1, 2006.01]**
- 31/00 Lappet, swivel or other looms for forming embroidery-like decoration on fabrics [1, 2006.01]**
- 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) [1, 2006.01]**
- 35/00 Smallware looms, i.e. looms for weaving ribbons or other narrow fabrics (D03D 47/00 takes precedence) [1, 2006.01]**
- 37/00 Circular looms (looms for weaving separate fabrics disposed in a circle or polygon D03D 33/00) [1, 2006.01]**
- 39/00 Pile-fabric looms [1, 2006.01]**
- 39/02 • Axminster looms, i.e. wherein pile tufts are inserted during weaving [1, 2006.01]
- 39/04 • • Spool Axminster looms [1, 2006.01]
- 39/06 • • • Tuft yarn tube or spool frames [1, 2006.01]
- 39/08 • • Gripper Axminster looms [1, 2006.01]
- 39/10 • Wire-tapestry looms, e.g. for weaving velvet or Brussels or Wilton carpets, the pile being formed over weftwise wires [1, 2006.01]
- 39/12 • • Mechanisms for operating the pile wires [1, 2006.01]
- 39/14 • • Construction of the pile wires, e.g. pile wires which cut [1, 2006.01]
- 39/16 • Double-plush looms, i.e. for weaving two pile fabrics face-to-face [1, 2006.01]
- 39/18 • • Separating the two plush layers, e.g. by cutting [1, 2006.01]
- 39/20 • Looms forming pile over warpwise wires [1, 2006.01]
- 39/22 • Terry looms [1, 2006.01]
- 39/24 • Devices for cutting the pile on the loom (pile wires which cut D03D 39/14; separating two plush layers D03D 39/18) [1, 2006.01]
- 41/00 Looms not otherwise provided for, e.g. for weaving chenille yarn; Details peculiar to these looms [1, 2006.01]**
- 43/00 Looms with change-boxes [1, 2006.01]**
- 43/02 • with drop boxes [1, 2006.01]
- 43/04 • • Operating mechanisms [1, 2006.01]
- 43/06 • with rotary boxes [1, 2006.01]
- 43/08 • • Operating mechanisms [1, 2006.01]
- 43/10 • Weft catchers, i.e. means for preventing entanglement of wefts [1, 2006.01]
- 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) [1, 2006.01]**
- 45/02 • Controlling replenishment [1, 2006.01]
- 45/04 • • Pim feelers or other detectors for initiating replenishment (weft stop motions D03D 51/34) [1, 2006.01]
- 45/06 • • • mechanical [1, 2006.01]
- 45/08 • • • • of the side-slip type [1, 2006.01]
- 45/10 • • • electrical [1, 2006.01]
- 45/12 • • • optical [1, 2006.01]
- 45/14 • • Storing the need for replenishment or the colour required until the spent shuttle returns to the replenishing end of the loom [1, 2006.01]
- 45/16 • • • selecting thereby weft of correct colour [1, 2006.01]
- 45/18 • • Shuttle feelers or other devices for preventing replenishment if shuttle is incorrectly positioned in shuttle box (shuttle stop motions D03D 51/40) [1, 2006.01]
- 45/20 • Changing bobbins, cops, or other shuttle stock [1, 2006.01]
- 45/22 • • effected with shuttle in normal shuttle box [1, 2006.01]
- 45/24 • • effected otherwise than in normal box [1, 2006.01]
- 45/26 • • Magazines [1, 2006.01]
- 45/28 • • • for one type of thread, e.g. same colour [1, 2006.01]
- 45/30 • • • • rotary [1, 2006.01]
- 45/32 • • • for several types of thread, e.g. multicolour [1, 2006.01]
- 45/34 • Shuttle changing [1, 2006.01]
- 45/36 • • fresh shuttle being substituted for spent shuttle in the same cell of shuttle box [1, 2006.01]
- 45/38 • • Shuttle box with an extra cell which is used only during replenishment [1, 2006.01]
- 45/40 • • • the spent shuttle being received in the normal cell and the fresh shuttle being picked from the extra cell [1, 2006.01]
- 45/42 • • • the spent shuttle being received in the extra cell and the fresh shuttle being picked from the normal cell [1, 2006.01]
- 45/44 • • Magazines [1, 2006.01]
- 45/46 • • • for one type of thread, e.g. single colour [1, 2006.01]
- 45/48 • • • for several types of threads, e.g. multicolour [1, 2006.01]
- 45/50 • Cutting, holding, manipulating, or disposing of, weft ends [1, 2006.01]
- 45/52 • • Cutting weft of depleted shuttle near shuttle and holding the piece attached to the fabric [1, 2006.01]
- 45/54 • • Cutting fresh weft and holding the piece attached to the fabric [1, 2006.01]
- 45/56 • • Cutting depleted and fresh wefts at selvage [1, 2006.01]
- 45/58 • • Removing tip bunch or fresh weft end from fresh bobbin [1, 2006.01]
- 45/60 • • • substantially by air stream or suction [1, 2006.01]
- 45/62 • • Disposing of waste pieces of cut weft end (D03D 45/58 takes precedence) [1, 2006.01]
- 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) [1, 2006.01]**
- 47/02 • wherein loops of continuous weft thread are inserted, i.e. double picks (D03D 47/27 takes precedence) [1, 3, 2006.01]
- 47/04 • • by a reciprocating needle having a permanently-threaded eye [1, 2006.01]
- 47/06 • • by a pivoted having a permanently-threaded eye [1, 2006.01]
- 47/08 • • • the path of the needle being modified by cams, linkages, or other means [1, 2006.01]
- 47/10 • • by a forked needle pushing loop of weft through shed [1, 2006.01]

- 47/12 • wherein single picks of weft thread are inserted, i.e. with shedding between each pick (D03D 47/27 takes precedence) [1, 3, 2006.01]
- 47/14 • • by a gripper needle taking the end of the weft through the shed [1, 2006.01]
- 47/16 • • by a gripper needle entering the shed empty and drawing the weft as it retracts [1, 2006.01]
- 47/18 • • two weft inserters meeting at or near the middle of the shed and transferring the weft from one to the other [1, 2006.01]
- 47/20 • • Constructional features of the thread-engaging device on the inserters [1, 2006.01]
- 47/22 • • • adapted for working a loop of weft part-way inserted in the shed and then straightened-out [1, 2006.01]
- 47/23 • • • Thread grippers (in dummy or gripper shuttles D03J 5/06) [3, 2006.01]
- 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) [1, 2006.01]
- 47/25 • • • inserted from only one side of loom [3, 2006.01]
- 47/26 • • Travelling-wave-shed looms [1, 2006.01]
- 47/27 • Drive or guide mechanisms for weft inserting [3, 2006.01]
- 47/28 • wherein the weft itself is projected into the shed [1, 2006.01]
- 47/30 • • by gas jet [1, 2006.01]
- 47/32 • • by liquid jet [1, 2006.01]
- 47/34 • Handling the weft between bulk storage and weft-inserting means [1, 2006.01]
- 47/36 • • Measuring and cutting the weft [1, 2006.01]
- 47/38 • • Weft pattern mechanisms [1, 2006.01]
- 47/39 • wherein cane, straw, slats, material for hair-cloth or similar material is handled [3, 2006.01]
- 47/40 • Forming selvedges [1, 2006.01]
- 47/42 • • by knitting or interlacing loops of weft [1, 2006.01]
- 47/44 • • • with additional selvage thread [1, 2006.01]
- 47/46 • • by selvage shuttle or other device passing selvage thread through loop of weft (by knitting D03D 47/44) [1, 2006.01]
- 47/48 • • by inserting cut end of weft in next shed, e.g. by tucking, by blowing [1, 2006.01]
- 47/50 • • by adhesion [1, 2006.01]
- 49/00 Details or constructional features not peculiar to looms of a particular type (temples D03J 1/22) [1, 2006.01]**
- 49/02 • Construction of loom framework [1, 2006.01]
- 49/04 • Control of the tension in warp or cloth [1, 2006.01]
- 49/06 • • Warp let-off mechanisms (construction of warp beam D02H) [1, 2006.01]
- 49/08 • • • Warp beam brakes [1, 2006.01]
- 49/10 • • • Driving the warp beam to let the warp off [1, 2006.01]
- 49/12 • • Controlling warp tension by means other than let-off mechanisms [1, 2006.01]
- 49/14 • • • Compensating for tension differences during shedding [1, 2006.01]
- 49/16 • • • Warp supplied by creel [1, 2006.01]
- 49/18 • • Devices for indicating warp tension (measuring tension of threads in general G01L 5/04) [1, 2006.01]
- 49/20 • • Take-up motions; Cloth beams (storage racks for beams D02H) [1, 2006.01]
- 49/22 • • Back rests; Lease rods; Brest beams [1, 2006.01]
- 49/24 • Mechanisms for inserting shuttle in shed (shuttles *per se* D03J 5/00) [1, 2006.01]
- 49/26 • • Picking mechanisms, e.g. for propelling gripper shuttles or dummy shuttles [1, 2006.01]
- 49/28 • • • Driving mechanisms for the picker stick [1, 2006.01]
- 49/30 • • • • operated by cam [1, 2006.01]
- 49/32 • • • • operated by previously-loaded spring or equivalent [1, 2006.01]
- 49/34 • • • • operated by liquid or gas pressure [1, 2006.01]
- 49/36 • • • Pickers; Arresting means therefor (check straps D03D 49/40) [1, 2006.01]
- 49/38 • • • Picking sticks; Arresting means therefor (check straps D03D 49/40) [1, 2006.01]
- 49/40 • • • Check straps; Lug straps; Similar strap components [1, 2006.01]
- 49/42 • • whereby the shuttle is propelled by liquid or gas pressure [1, 2006.01]
- 49/44 • • whereby the shuttle is propelled by electric or magnetic means [1, 2006.01]
- 49/46 • • wherein the shuttle is pushed or pulled positively (travelling-wave-shed type looms D03D 47/26) [1, 2006.01]
- 49/48 • • positioning shuttle in readiness for picking [1, 2006.01]
- 49/50 • • Devices or arrangements concerning insertion of the weft, not otherwise provided for [1, 2006.01]
- 49/52 • Shuttle boxes (change-boxes D03D 43/00) [1, 2006.01]
- 49/54 • • Braking means; Swells [1, 2006.01]
- 49/56 • • • Shuttle relief mechanisms, i.e. reducing shuttle swell pressure before picking [1, 2006.01]
- 49/58 • Shuttle guards [1, 2006.01]
- 49/60 • Construction or operation of slay [1, 2006.01]
- 49/62 • • Reeds mounted on slay [1, 2006.01]
- 49/64 • • wherein the slay dwells or moves slowly while the weft is being inserted [1, 2006.01]
- 49/66 • • Shuttle races [1, 2006.01]
- 49/68 • Reeds or beat-up combs not mounted on the slay (loose reed stop motion D03D 51/42) [1, 2006.01]
- 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) [1, 2006.01]
- 51/00 Driving, starting, or stopping arrangements; Automatic stop motions [1, 2006.01]**
- 51/02 • General arrangements of driving mechanism [1, 2006.01]
- 51/04 • Manual controls [1, 2006.01]
- 51/06 • using particular methods of stopping [1, 2006.01]
- 51/08 • • stopping at definite point in weaving cycle, or moving to such point after stopping [1, 2006.01]
- 51/10 • • stopping suddenly [1, 2006.01]
- 51/12 • for adjusting speed [1, 2006.01]
- 51/14 • for reducing speed temporarily [1, 2006.01]
- 51/16 • for varying speed cyclically [1, 2006.01]
- 51/18 • Automatic stop motions [1, 2006.01]
- 51/20 • • Warp stop motions [1, 2006.01]
- 51/22 • • • mechanical [1, 2006.01]
- 51/24 • • • • wherein droppers are suspended on individual warp threads or small groups of threads [1, 2006.01]
- 51/26 • • • • Detector healds [1, 2006.01]

D03D

- 51/28 • • • electrical [1, 2006.01]
- 51/30 • • • • wherein droppers are suspended on individual warp threads or small groups of threads [1, 2006.01]
- 51/32 • • • • Detector healds [1, 2006.01]
- 51/34 • • Weft stop motions [1, 2006.01]
- 51/36 • • • Centre weft forks [1, 2006.01]
- 51/38 • • • Side weft forks [1, 2006.01]
- 51/40 • • Shuttle stop motions [1, 2006.01]
- 51/42 • • • Loose reed mechanisms [1, 2006.01]
- 51/44 • • acting on defective operation of loom mechanisms [1, 2006.01]
- 51/46 • • • of shedding mechanisms [1, 2006.01]

D03J AUXILIARY WEAVING APPARATUS; WEAVERS' TOOLS; SHUTTLES

- 1/00 Auxiliary apparatus combined with or associated with looms [1, 2006.01]**
- 1/02 • for treating warp, e.g. cleaning, moistening [1, 2006.01]
- 1/04 • for treating weft [1, 2006.01]
- 1/06 • for treating fabric (cutting pile on the loom D03D 39/24) [1, 2006.01]
- 1/08 • • for slitting fabric [1, 2006.01]
- 1/10 • for indicating pattern to weaver [1, 2006.01]
- 1/12 • transferring bobbins between loom and winding station (bobbin-winding machines B65H) [1, 2006.01]
- 1/13 • for leasing warp (leasing in general D02H 9/00) [2, 2006.01]
- 1/14 • Apparatus for threading warp stop-motion droppers, healds, or reeds [1, 2006.01]
- 1/16 • Apparatus for joining warp ends (knot-tying tools D03J 3/00) [1, 2006.01]
- 1/18 • • for joining, e.g. tying, a complete series of fresh warp threads to the used warp threads [1, 2006.01]
- 1/20 • Measuring length of fabric or number of picks woven [1, 2006.01]
- 1/22 • Temples [1, 2006.01]
- 1/24 • Mirrors or other arrangements for inspecting loom parts [1, 2006.01]
- 3/00 Weavers' tools, e.g. knot-tying tools [1, 2006.01]**
- 3/02 • Reed and heald hooks [1, 2006.01]
- 3/04 • Shuttle-threading tools (threading devices in shuttles D03J 5/20) [1, 2006.01]
- 5/00 Shuttles** (swivel shuttles D03D 31/00; shuttles for smallware looms D03D 35/00; circular loom shuttles D03D 37/00; selvedge shuttles D03D 47/46) [1, 2006.01]
- 5/02 • Construction of shuttle body [1, 2006.01]
- 5/04 • • Shuttle tips [1, 2006.01]
- 5/06 • Dummy shuttles; Gripper shuttles [1, 2006.01]
- 5/08 • Supports for pirns, bobbins, or cops [1, 2006.01]
- 5/10 • • Pegs or spindles [1, 2006.01]
- 5/12 • • • removable [1, 2006.01]
- 5/14 • • • pivoted [1, 2006.01]
- 5/16 • • Bobbin clamps, e.g. for automatic bobbin-changing loom shuttles [1, 2006.01]
- 5/18 • • for coreless cops, i.e. shuttles having no peg or bobbin clamp [1, 2006.01]
- 5/20 • Devices in shuttles for threading (separate tools for threading shuttles D03J 3/04) [1, 2006.01]
- 5/22 • • for self-threading, i.e. threading automatically when shuttle is picked [1, 2006.01]
- 5/24 • Tension devices [1, 2006.01]