D CPC - COOPERATIVE PATENT CLASSIFICATION

D TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D05 SEWING; EMBROIDERING; TUFTING

D05B SEWING (appliances for the tailoring trade A41H; sewing tables A47B 29/00; sewing in bookbinding B42B 2/00; sewing machines modified for knitting D04B 39/08)

NOTE
In this subclass, the groups designating sewing apparatus or machines cover also sewing processes dependent on their use, and the thread seams produced thereby

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.

1/00 General types of sewing apparatus or machines without mechanism for lateral movement of the needle or the work or both
1/02 . for making single-thread seams
1/04 . Running-stitch seams
1/06 . Single chain-stitch seams
1/08 . for making multi-thread seams
1/10 . Double chain-stitch seams
1/12 . Lock-stitch seams
1/14 . Combined or alternative chain-stitch and lock-stitch seams
1/16 . Pseudo-lock-stitch seams in which the thread loops do not positively interlock (shoe or welt sewing machines D05B 15/02)
1/18 . Seams for protecting or securing edges (zig-zag sewing machines D05B 3/02, D05B 3/04)
1/20 . Overedge seams
1/22 . combined with joining or securing seams
1/24 . for making blind-stitch seams
1/26 . for making fluid-tight seams (sewing machines for concurrently making thread and welded seams D05B 17/00)

Special-purpose or automatic sewing apparatus or machines

{(surgical sewing machines A61B 17/0491)}

3/00 Sewing apparatus or machines with mechanism for lateral movement of the needle or the work or both for making ornamental pattern seams, for sewing buttonholes, for reinforcing openings, or for fastening articles, e.g. buttons, by sewing (programme-controlled sewing machines D05B 19/00; with devices for automatically controlling movement of work-carrier D05B 21/00)
3/02 . with mechanisms for needle-bar movement
3/025 . {with a pair of needles mounted on the needle-bar}
3/04 . with mechanisms for work feed
3/06 . for sewing buttonholes { (detachable devices D05B 3/2/4; buttonholes A41F 1/02)
3/08 . for buttonholes with eyelet ends
3/10 . for making piped openings
3/12 . for fastening articles by sewing
3/14 . perforated or press buttons
3/16 . shank buttons
3/18 . hooks or eyelets
3/20 . labels (labelling fabrics otherwise than by sewing B65C 5/00; labels or securing means therefor, in general G09F 3/00)
3/22 . Article-, e.g. button-, feed mechanisms therefor {(work-handling elements for attaching small textile pieces D05B 35/066)}
3/24 . formed by general-purpose sewing machines modified by attachments, e.g. by detachable devices
3/243 . {for embroidering, e.g. monograms}
3/246 . {for darning}
3/248. . .
5/00 Sewing machines for temporarily connecting articles, e.g. pairs of socks
7/00 Linking machines, e.g. for joining knitted fabrics
9/00 Hem-stitch sewing machines
11/00 Machines for sewing quilts or mattresses (control of workpiece-holding frames, or of sewing machines, in order to obtain particular seam configuration D05B 21/00)
11/005 . {for sewing the edges of mattresses}
13/00 Machines for sewing sacks
13/02 . for closing filled bags or sacks (combined with bag- or sack-filling apparatus B65B)
15/00 Machines for sewing leather goods (making pseudo-lock-stitch seams D05B 1/16)
15/005 . {Corner sewing of suitcases or bags}
15/02 . Shoe sewing machines
15/025 . {for sewing moccasin-type seams}
15/04 . for lock-stitch work (D05B 15/08 takes precedence)
15/06 . Welt sewing machines
15/08 . {for lock-stitch work}
15/10 . Lining sewing machines
17/00  Sewing machines for concurrently making thread and welded seams (for making non-welded fluid-tight seams D05B 1/26)

19/00  Programme-controlled sewing machines (with devices for automatically controlling movement of work-carrier D05B 21/00; devices for stopping drive when sewing tools have reached a predetermined position D05B 69/22)
   19/003  . [Zig-zag sewing machines with electric or electronic programming]
   19/006  . (Control knobs or display means (D05B 19/085, D05B 19/105 take precedence))
   19/02  . Sewing machines having electronic memory or microprocessor control unit
   19/04  . . characterised by memory aspects
   19/06  . . . Physical exchange of memory
   19/08  . . . Arrangements for inputting stitch or pattern data to memory (; Editing stitch or pattern data)
   19/085  . . . . . (Physical layout of switches or displays; Switches co-operating with the display)
   19/10  . . . Arrangements for selecting combinations of stitch or pattern data from memory (; Handling data in order to control stitch format, e.g. size, direction, mirror image)
   19/105  . . . . . (Physical layout of switches or displays; Switches co-operating with the display)
   19/12  . . . characterised by control of operation of machine
   19/14  . . . Control of needle movement, e.g. varying amplitude or period of needle movement
   19/16  . . . Control of workpiece movement, e.g. modulation of travel of feed dog

21/00  Sewing machines with devices for automatically controlling movement of work-carrier relative to stitch-forming mechanism in order to obtain particular configuration of seam, e.g. programme-controlled for sewing collars, for attaching pockets
   21/002  . (consisting of lateral displacement of the workpieces by a feed-dog or a fluted presser foot)
   21/005  . (to obtain spiral seams (fixed or adjustable pin holding the work for spiral stitching D05B 35/107))
   21/007  . (to obtain circular or elliptical seams (fixed or adjustable pin holding the work for circular stitching D05B 35/107))

23/00  Sewing apparatus or machines not otherwise provided for (for making zip closures A44B 19/00)
   23/001  . (Straw hat sewing machines)
   23/002  . (Hat hemming sewing machines)
   23/003  . (Sewing machines for straw cases, wisps of straw or canvas shoes)
   23/004  . (Sewing machines for ribbing corsets)
   23/005  . (Sewing machines specially adapted for binding or uniting carpets)
   23/006  . (Sewing machines for making cylindrical articles)
   23/007  . (Sewing units for assembling parts of knitted panties or closing the stocking toe part)
   23/008  . . (Line closers, i.e. sewing units for forming the body portion of the panty hose)
   23/009  . . (Toe closers)

25/00  Sewing units consisting of combinations of several sewing machines

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<table>
<thead>
<tr>
<th>27/00</th>
<th>Work-feeding means</th>
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<tbody>
<tr>
<td>27/02</td>
<td>. with feed dogs having horizontal and vertical movements</td>
</tr>
<tr>
<td>27/04</td>
<td>. arranged above the workpieces</td>
</tr>
<tr>
<td>27/06</td>
<td>. arranged above and below the workpieces</td>
</tr>
<tr>
<td>27/08</td>
<td>. with differential feed motions</td>
</tr>
<tr>
<td>27/10</td>
<td>. with rotary circular feed members</td>
</tr>
<tr>
<td>27/12</td>
<td>. rotating continuously</td>
</tr>
<tr>
<td>27/14</td>
<td>. rotating discontinuously</td>
</tr>
<tr>
<td>27/16</td>
<td>. with differential feed motions</td>
</tr>
<tr>
<td>27/18</td>
<td>. Feed cups</td>
</tr>
<tr>
<td>27/185</td>
<td>. . . {Guides or supports for the work presented to the feed cups, e.g. uncurling guides}</td>
</tr>
<tr>
<td>27/20</td>
<td>. constituted by sewing needles</td>
</tr>
<tr>
<td>27/22</td>
<td>. with means for setting length of stitch</td>
</tr>
<tr>
<td>27/24</td>
<td>. Feed-dog lifting and lowering devices</td>
</tr>
<tr>
<td>27/26</td>
<td>. in machines for sewing leather</td>
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<tr>
<th>29/00</th>
<th>Pressers; Presser feet (for feeding D05B 27/04)</th>
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<tr>
<td>29/02</td>
<td>. Presser-control devices</td>
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<tr>
<td>29/04</td>
<td>. Pressers in machines for sewing leather</td>
</tr>
<tr>
<td>29/06</td>
<td>. Presser feet</td>
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<tr>
<td>29/08</td>
<td>. comprising relatively-movable parts</td>
</tr>
<tr>
<td>29/10</td>
<td>. with rollers</td>
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<tr>
<td>29/12</td>
<td>. Presser-foot attachment</td>
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</tbody>
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<thead>
<tr>
<th>31/00</th>
<th>Workpiece holders or hold-downs in machines for sewing leather</th>
</tr>
</thead>
<tbody>
<tr>
<td>31/02</td>
<td>. Welt guides</td>
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<table>
<thead>
<tr>
<th>33/00</th>
<th>Devices incorporated in sewing machines for supplying or removing the work</th>
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</thead>
<tbody>
<tr>
<td>33/003</td>
<td>. [by equal steps of adjustable length, e.g. for automatically positioning successive buttonhole locations]</td>
</tr>
<tr>
<td>33/006</td>
<td>. [Feeding workpieces separated from piles, e.g. unstacking]</td>
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<tr>
<td>33/02</td>
<td>. and connected, for synchronous operation, with the work-feeding devices of the sewing machine</td>
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<tr>
<th>35/00</th>
<th>Work-feeding or -handling elements not otherwise provided for</th>
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<tbody>
<tr>
<td>35/02</td>
<td>. for facilitating seaming; Hem-turning elements; Hemmers ((D05B 35/062 takes precedence))</td>
</tr>
<tr>
<td>35/04</td>
<td>. with movable tools</td>
</tr>
<tr>
<td>35/06</td>
<td>. for attaching bands, ribbons, strips, or tapes or for binding</td>
</tr>
<tr>
<td>35/062</td>
<td>. . (with hem-turning (D05B 35/066 takes precedence))</td>
</tr>
<tr>
<td>35/064</td>
<td>. . . (for attaching slide fasteners (connection of the interlocking member to the stringer tape A44B 19/40))</td>
</tr>
<tr>
<td>35/066</td>
<td>. . . (for attaching small textile pieces, e.g. labels, belt loops)</td>
</tr>
<tr>
<td>35/068</td>
<td>. . . . (for attaching belt loops)</td>
</tr>
<tr>
<td>35/08</td>
<td>. for ruching, gathering, casing, or filling lace, ribbons, or bindings; Pleating devices; Cutters; Gathering feet; Crimpers; Curlers; Rufflers</td>
</tr>
<tr>
<td>35/085</td>
<td>. . . (for making folds transversely to the sewing direction)</td>
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<tr>
<td>35/10</td>
<td>. Edge guides</td>
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<tr>
<td>35/102</td>
<td>. . (Edge guide control systems with edge sensors)</td>
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Sewing-machine elements for feeding, positioning, handling, or treating the work

**D05B**

35/105 . . . [Guiding while stretching the workpiece, e.g. by means of weighted clips]
35/107 . . . [Fixed or adjustable pin holding the work, e.g. for circular or spiral stitching]
35/12 . . . Indicators for positioning work, e.g. with graduated scales

37/00 Devices incorporated in sewing machines for slitting, grooving, or cutting (severing sewing-threads D05B 65/00)
37/02 . . . Slitting or grooving devices
37/04 . . . Cutting devices
37/06 . . . with oscillating tools
37/063 . . . [in synchronism with the movement of the needle bar or the work-feeding means]
37/066 . . . . . [Pinking]
37/08 . . . with rotatable tools
37/085 . . . . . [Pinking]
37/10 . . . with heated tools

39/00 Workpiece carriers (for automatically controlling movement of work-carrier to obtain particular configuration of seam D05B 21/00; in general A41H 15/00)
39/005 . . . [Quilting frames]

41/00 Work-collecting devices

**Sewing-machine elements for supplying, handling, or treating thread material**

43/00 Spool-pin assemblies incorporated in sewing machines

45/00 Applications of measuring devices for determining the length of threads used in sewing machines (measuring devices in embroidery machines D05C, in general G01B)

47/00 Needle-thread tensioning devices; Applications of tensometers
47/02 . . . Manually-controlled tensioning devices
47/04 . . . Automatically-controlled tensioning devices
47/06 . . . Applications of tensometers (application of tension indicators in handling thin or filamentary material B65H 59/40; for embroidery machines D05C 11/08; tensometers in general G01L)

49/00 Take-up devices, e.g. levers, for the needle thread
49/02 . . . operated by cams or linkages
49/04 . . . rotary
49/06 . . . for machines for sewing leather

51/00 Applications of needle-thread guards; Thread-break detectors (for embroidery machines D05C 11/00)

53/00 Thread- or cord-laying mechanisms; Thread fingers

55/00 Needle holders; Needle bars (needles D05B 85/00)
55/02 . . . Devices for fastening needles to needle bars
55/04 . . . Devices for inserting needles
55/06 . . . Needle guides; Needle protectors (finger-protecting devices D05B 83/00)
55/08 . . . Driving arrangements for curved needles
55/10 . . . Needle bars for multiple-needle sewing machines
55/12 . . . with provision for varying the distance between the needles
55/14 . . . Needle-bar drives
55/16 . . . with provision for disengaging individual needle bars

57/00 Loop takers, e.g. loopers
57/02 . . . for chain-stitch sewing machines, e.g. oscillating
57/04 . . . rotary
57/06 . . . for overedge-stitch sewing machines
57/08 . . . for lock-stitch sewing machines
57/10 . . . Shuttle
57/12 . . . oscillating
57/14 . . . with rotary hooks
57/143 . . . . . [Vertical axis type]
57/146 . . . . . [Inclined axis type]
57/16 . . . with bobbin casings guided in tracks
57/18 . . . with bobbin casings held by removable caps
57/20 . . . with bobbin casings held by magnetic forces
57/22 . . . with spool-size bobbin for lower thread
57/24 . . . with lower-thread packages mounted for controlled sliding movements
57/26 . . . Bobbin holders or casings; Bobbin holder or case guards; Bobbin discharge devices
57/265 . . . . . [for loop-takers with vertical axis]
57/28 . . . Applications of bobbins for storing the lower thread
57/30 . . . Driving-gear for loop takers
57/32 . . . in chain-stitch sewing machines
57/34 . . . in overedge-stitch sewing machines
57/36 . . . in lock-stitch sewing machines
57/38 . . . Shuttle drives

59/00 Applications of bobbin-winding or -changing devices; Indicating or control devices associated therewith
59/02 . . . Devices for determining or indicating the length of thread still on the bobbin
59/04 . . . Devices for changing the bobbin

61/00 Loop holders; Loop spreaders; Stitch-forming fingers

63/00 Devices associated with the loop-taker thread, e.g. for tensioning
63/02 . . . Loop-taker thread take-up levers
63/04 . . . Loop-taker thread guards

65/00 Devices for severing the needle or lower thread
65/003 . . . [the thread being engaged manually against the cutting edge of a fixedly arranged knife]
65/006 . . . [with heated tools]
65/02 . . . controlled by the sewing mechanisms \{(D05B 65/006 takes precedence)\}
65/04 . . . controlled by the workpieces \{(D05B 65/006 takes precedence)\}
65/06 . . . and for disposing of the severed thread end \{Catching or wiping devices for the severed thread\}

67/00 Devices incorporated in sewing machines for lubricating, waxing, or colouring the threads

**Driving-gear, control, lubricating, or cooling devices for sewing machines**

69/00 Driving-gear; Control devices
69/02 . . . Mechanical drives
Driving-gear, control, lubricating, or cooling devices for sewing machines

83/00 Guards or like devices for preventing injury to operator (machine safety devices in general F16P)

Needles; Needle threaders; Seam-ripping devices

85/00 Needles (surgical needles A61B 17/00; manufacture of needles B21G 1/00)
85/003 . [with two tips and an eye in the middle]
85/006 . [Hooked needles]
85/02 . with slotted eyes (, i.e. with a slit leading to the eye for thread insertion)
85/04 . Spring or bearded needles
85/06 . Curved needles
85/08 . Flexible needles
85/10 . Hollow needles
85/12 . Coated needles
85/14 . Latch needles

87/00 Needle- (or looper-) threading devices
87/02 . with mechanical means for moving thread through needle (or looper) eye
87/04 . with optical devices to assist threading

89/00 Seam-ripping devices

Hand sewing

91/00 Tools, implements, or accessories for hand sewing (needles, needle threaders D05B 85/00, D05B 87/00; appliances for the tailoring trade A41H)
91/02 . Bodkins
91/04 . Thimbles; Finger shields; Palm protectors
91/06 . Work holders or supports
91/08 . . Mushrooms; Darning eggs
91/10 . . Hoops or frames (for embroidery D05C)
91/12 . . Tool receptacles
91/14 . . Thread-spool pins
91/16 . . Thread-spool receptacles

93/00 Stitches; Stitch seams
93/02 . strengthened by auxiliary elements, e.g. rivets, staples

95/00 Preparatory or finishing operations in connection with hand sewing
95/04 . Softening material prior to sewing
95/06 . Flattening, pounding, or pressing dressed seams (in shoemaking A43D 8/44)

97/00 Hand sewing processes or apparatus for special work or not otherwise provided for
97/02 . Hand-guided apparatus
97/04 . for darning
97/06 . . using apparatus with latch or bearded needles
97/08 . using special threads or wires
97/10 . . for attaching buttons or fasteners
97/12 . . for attaching patches or like small pieces of fabric

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