

# 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.

<b>1/00</b>	<b>General types of sewing apparatus or machines without mechanism for lateral movement of the needle or the work or both</b>	3/12	. for fastening articles by sewing
		3/14	. . perforated or press buttons
		3/16	. . shank buttons
1/02	. for making single-thread seams	3/18	. . hooks or eyelets
1/04	. . Running-stitch seams	3/20	. . labels ( <a href="#">labelling fabrics otherwise than by sewing B65C 5/00</a> ; labels or securing means therefor, in general <a href="#">G09F 3/00</a> )
1/06	. . Single chain-stitch seams		
1/08	. for making multi-thread seams	3/22	. . Article-, e.g. button-, feed mechanisms therefor {(work-handling elements for attaching small textile pieces <a href="#">D05B 35/066</a> )}
1/10	. . Double chain-stitch seams		
1/12	. . Lock-stitch seams	3/24	. formed by general-purpose sewing machines modified by attachments, e.g. by detachable devices
1/14	. . Combined or alternative chain-stitch and lock-stitch seams	3/243	. . {for embroidering, e.g. monograms}
1/16	. . Pseudo-lock-stitch seams in which the thread loops do not positively interlock ( <a href="#">shoe or welt sewing machines D05B 15/02</a> )	3/246	. . {for darning}
1/18	. . Seams for protecting or securing edges ( <a href="#">zig-zag sewing machines D05B 3/02, D05B 3/04</a> )	<b>5/00</b>	<b>Sewing machines for temporarily connecting articles, e.g. pairs of socks</b>
1/20	. . . Overedge seams	<b>7/00</b>	<b>Linking machines, e.g. for joining knitted fabrics</b>
1/22	. . . . combined with joining or securing seams	<b>9/00</b>	<b>Hem-stitch sewing machines</b>
1/24	. for making blind-stitch seams	<b>11/00</b>	<b>Machines for sewing quilts or mattresses (control of workpiece-holding frames, or of sewing machines, in order to obtain particular seam configuration <a href="#">D05B 21/00</a>)</b>
1/26	. for making fluid-tight seams ( <a href="#">sewing machines for concurrently making thread and welded seams <a href="#">D05B 17/00</a></a> )	11/005	. {for sewing the edges of mattresses}
<b><u>Special-purpose or automatic sewing apparatus or machines</u></b> {( <a href="#">surgical sewing machines <a href="#">A61B 17/0491</a></a> )}		<b>13/00</b>	<b>Machines for sewing sacks</b>
<b>3/00</b>	<b>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 <a href="#">D05B 19/00</a>; with devices for automatically controlling movement of work-carrier <a href="#">D05B 21/00</a>)</b>	13/02	. for closing filled bags or sacks ( <a href="#">combined with bag- or sack-filling apparatus <a href="#">B65B</a></a> )
3/02	. with mechanisms for needle-bar movement	<b>15/00</b>	<b>Machines for sewing leather goods (making pseudo-lock-stitch seams <a href="#">D05B 1/16</a>)</b>
3/025	. . {with a pair of needles mounted on the needle-bar}	15/005	. {Corner sewing of suitcases or bags}
3/04	. with mechanisms for work feed	15/02	. Shoe sewing machines
3/06	. for sewing buttonholes ({ <a href="#">detachable devices <a href="#">D05B 3/24</a></a> ;} <a href="#">buttonholes <a href="#">A41F 1/02</a></a> )	15/025	. . {for sewing moccasin-type seams}
3/08	. . for buttonholes with eyelet ends	15/04	. . for lock-stitch work ( <a href="#">D05B 15/08 takes precedence</a> )
3/10	. for making piped openings	15/06	. . Welt sewing machines
		15/08	. . . for lock-stitch work
		15/10	. . Lining sewing machines

<b>17/00</b>	<b>Sewing machines for concurrently making thread and welded seams (for making non-welded fluid-tight seams <a href="#">D05B 1/26</a>)</b>	<b><u>Sewing-machine elements for feeding, positioning, handling, or treating the work</u></b>
<b>19/00</b>	<b>Programme-controlled sewing machines (with devices for automatically controlling movement of work-carrier <a href="#">D05B 21/00</a>; devices for stopping drive when sewing tools have reached a predetermined position <a href="#">D05B 69/22</a>)</b>	<b>27/00</b> <b>Work-feeding means</b>
19/003	. {Zig-zag sewing machines with electric or electronic programming}	27/02 . with feed dogs having horizontal and vertical movements
19/006	. {Control knobs or display means ( <a href="#">D05B 19/085</a> , <a href="#">D05B 19/105</a> take precedence)}	27/04 . . arranged above the workpieces
19/02	. Sewing machines having electronic memory or microprocessor control unit	27/06 . . arranged above and below the workpieces
19/04	. . characterised by memory aspects	27/08 . . with differential feed motions
19/06	. . . Physical exchange of memory	27/10 . with rotary circular feed members
19/08	. . . Arrangements for inputting stitch or pattern data to memory {; Editing stitch or pattern data}	27/12 . . rotating continuously
19/085	. . . . {Physical layout of switches or displays; Switches co-operating with the display}	27/14 . . rotating discontinuously
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}	27/16 . . with differential feed motions
19/105	. . . . {Physical layout of switches or displays; Switches co-operating with the display}	27/18 . . Feed cups
19/12	. . characterised by control of operation of machine	27/185 . . . {Guides or supports for the work presented to the feed cups, e.g. uncurling guides}
19/14	. . . Control of needle movement, e.g. varying amplitude or period of needle movement	27/20 . constituted by sewing needles
19/16	. . . Control of workpiece movement, e.g. modulation of travel of feed dog	27/22 . with means for setting length of stitch
<b>21/00</b>	<b>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</b>	27/24 . Feed-dog lifting and lowering devices
21/002	. {consisting of lateral displacement of the workpieces by a feed-dog or a fluted presser foot}	27/26 . in machines for sewing leather
21/005	. {to obtain spiral seams (fixed or adjustable pin holding the work for spiral stitching <a href="#">D05B 35/107</a> )}	<b>29/00</b> <b>Pressers; Presser feet (for feeding <a href="#">D05B 27/04</a>)</b>
21/007	. {to obtain circular or elliptical seams (fixed or adjustable pin holding the work for circular stitching <a href="#">D05B 35/107</a> )}	29/02 . Presser-control devices
<b>23/00</b>	<b>Sewing apparatus or machines not otherwise provided for (for making zip closures <a href="#">A44B 19/00</a>)</b>	29/04 . Pressers in machines for sewing leather
23/001	. {Straw hat sewing machines}	29/06 . Presser feet
23/002	. {Hat hemming sewing machines}	29/08 . . comprising relatively-movable parts
23/003	. {Sewing machines for straw cases, wisps of straw or canvas shoes}	29/10 . . with rollers
23/004	. {Sewing machines for ribbing corsets}	29/12 . Presser-foot attachment
23/005	. {Sewing machines specially adapted for binding or uniting carpets}	<b>31/00</b> <b>Workpiece holders or hold-downs in machines for sewing leather</b>
23/006	. {Sewing machines for making cylindrical articles}	31/02 . Welt guides
23/007	. {Sewing units for assembling parts of knitted panties or closing the stocking toe part}	<b>33/00</b> <b>Devices incorporated in sewing machines for supplying or removing the work</b>
23/008	. . {Line closers, i.e. sewing units for forming the body portion of the panty hose}	33/003 . {by equal steps of adjustable length, e.g. for automatically positioning successive buttonhole locations}
23/009	. . {Toe closers}	33/006 . {Feeding workpieces separated from piles, e.g. unstacking}
<b>25/00</b>	<b>Sewing units consisting of combinations of several sewing machines</b>	33/02 . and connected, for synchronous operation, with the work-feeding devices of the sewing machine
		<b>35/00</b> <b>Work-feeding or -handling elements not otherwise provided for</b>
		35/02 . for facilitating seaming; Hem-turning elements; Hemmers {( <a href="#">D05B 35/062</a> takes precedence)}
		35/04 . . with movable tools
		35/06 . for attaching bands, ribbons, strips, or tapes or for binding
		35/062 . . {with hem-turning ( <a href="#">D05B 35/066</a> takes precedence)}
		35/064 . . {for attaching slide fasteners (connection of the interlocking member to the stringer tape <a href="#">A44B 19/40</a> )}
		35/066 . . {for attaching small textile pieces, e.g. labels, belt loops}
		35/068 . . . {for attaching belt loops}
		35/08 . for ruching, gathering, casing, or filling lace, ribbons, or bindings; Pleating devices; Cuttlers; Gathering feet; Crimpers; Curlers; Rufflers
		35/085 . . {for making folds transversely to the sewing direction}
		35/10 . Edge guides
		35/102 . . {Edge guide control systems with edge sensors}

35/105	. . {Guiding while stretching the workpiece, e.g. by means of weighted clips}	55/12	. . with provision for varying the distance between the needles
35/107	. . {Fixed or adjustable pin holding the work, e.g. for circular or spiral stitching}	55/14	. Needle-bar drives
35/12	. Indicators for positioning work, e.g. with graduated scales	55/16	. . with provision for disengaging individual needle bars
<b>37/00</b>	<b>Devices incorporated in sewing machines for slitting, grooving, or cutting (severing sewing-threads <a href="#">D05B 65/00</a>)</b>	<b>57/00</b>	<b>Loop takers, e.g. loopers</b>
37/02	. Slitting or grooving devices	57/02	. for chain-stitch sewing machines, e.g. oscillating
37/04	. Cutting devices	57/04	. . rotary
37/06	. . with oscillating tools	57/06	. for overedge-stitch sewing machines
37/063	. . . {in synchronism with the movement of the needle bar or the work-feeding means}	57/08	. for lock-stitch sewing machines
37/066	. . . . {Pinking}	57/10	. . Shuttles
37/08	. . with rotatable tools	57/12	. . . oscillating
37/085	. . . {Pinking}	57/14	. . . with rotary hooks
37/10	. . with heated tools	57/143	. . . . {Vertical axis type}
<b>39/00</b>	<b>Workpiece carriers (for automatically controlling movement of work-carrier to obtain particular configuration of seam <a href="#">D05B 21/00</a>; in general <a href="#">A41H 15/00</a>)</b>	57/146	. . . . {Inclined axis type}
39/005	. {Quilting frames}	57/16	. . . with bobbin casings guided in tracks
<b>41/00</b>	<b>Work-collecting devices</b>	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 looptakers 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
		<b>59/00</b>	<b>Applications of bobbin-winding or -changing devices; Indicating or control devices associated therewith</b>
		59/02	. Devices for determining or indicating the length of thread still on the bobbin
		59/04	. Devices for changing the bobbin
		<b>61/00</b>	<b>Loop holders; Loop spreaders; Stitch-forming fingers</b>
		<b>63/00</b>	<b>Devices associated with the loop-taker thread, e.g. for tensioning</b>
		63/02	. Loop-taker thread take-up levers
		63/04	. Loop-taker thread guards
		<b>65/00</b>	<b>Devices for severing the needle or lower thread</b>
		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 {( <a href="#">D05B 65/006</a> takes precedence)}
		65/04	. controlled by the workpieces {( <a href="#">D05B 65/006</a> takes precedence)}
		65/06	. and for disposing of the severed thread end {; <a href="#">Catching or wiping devices for the severed thread</a> }
		<b>67/00</b>	<b>Devices incorporated in sewing machines for lubricating, waxing, or colouring the threads</b>
		<b><u>Driving-gear, control, lubricating, or cooling devices for sewing machines</u></b>	
		<b>69/00</b>	<b>Driving-gear; Control devices</b>
		69/02	. Mechanical drives
<b><u>Sewing-machine elements for supplying, handling, or treating thread material</u></b>			
<b>43/00</b>	<b>Spool-pin assemblies incorporated in sewing machines</b>		
<b>45/00</b>	<b>Applications of measuring devices for determining the length of threads used in sewing machines (measuring devices in embroidery machines <a href="#">D05C</a>, in general <a href="#">G01B</a>)</b>		
<b>47/00</b>	<b>Needle-thread tensioning devices; Applications of tensometers</b>		
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 <a href="#">B65H 59/40</a> ; for embroidery machines <a href="#">D05C 11/08</a> ; tensometers in general <a href="#">G01L</a> )		
<b>49/00</b>	<b>Take-up devices, e.g. levers, for the needle thread</b>		
49/02	. operated by cams or linkages		
49/04	. rotary		
49/06	. for machines for sewing leather		
<b>51/00</b>	<b>Applications of needle-thread guards; Thread-break detectors (for embroidery machines <a href="#">D05C 11/00</a>)</b>		
<b>53/00</b>	<b>Thread- or cord-laying mechanisms; Thread fingers</b>		
<b>55/00</b>	<b>Needle holders; Needle bars (needles <a href="#">D05B 85/00</a>)</b>		
55/02	. Devices for fastening needles to needle bars		
55/04	. Devices for inserting needles		
55/06	. Needle guides; Needle protectors (finger-protecting devices <a href="#">D05B 83/00</a> )		
55/08	. Driving arrangements for curved needles		
55/10	. Needle bars for multiple-needle sewing machines		

69/04	. . Manual drives	<b>83/00</b>	<b>Guards or like devices for preventing injury to operator</b> ( <a href="#">machine safety devices in general F16P</a> )
69/06	. . Pedal drives		
69/08	. Fluid drives, e.g. pneumatic		
69/10	. Electrical or electromagnetic drives	<b>Needles; Needle threaders; Seam-ripping devices</b>	
69/12	. . using rotary electric motors	<b>85/00</b>	<b>Needles</b> ( <a href="#">surgical needles A61B 17/06</a> ; <a href="#">manufacture of needles B21G 1/00</a> )
69/125	. . . { <a href="#">Arrangement of clutch-brake construction</a> }	85/003	. { <a href="#">with two tips and an eye in the middle</a> }
69/14	. Devices for changing speed or for reversing direction of rotation	85/006	. { <a href="#">Hooked needles</a> }
69/16	. . mechanical	85/02	. with slotted eyes {, i.e. <a href="#">with a slit leading to the eye for thread insertion</a> }
69/18	. . electric {, e.g. <a href="#">foot pedals</a> }	85/04	. Spring or bearded needles
69/20	. Control devices responsive to the number of stitches made	85/06	. Curved needles
69/22	. Devices for stopping drive when sewing tools have reached a predetermined position ( <a href="#">electric motor control systems in general H02P</a> )	85/08	. Flexible needles
69/24	. . Applications of devices for indicating or ascertaining sewing-tool position	85/10	. Hollow needles
69/26	. . with automatic means to reduce speed of drive, e.g. in one or more steps	85/12	. Coated needles
69/28	. Applications of servo devices for tool-positioning purposes	85/14	. Latch needles
69/30	. Details ( <a href="#">work-feeding drives D05B 27/00</a> ; <a href="#">needle-bar drives D05B 55/14</a> ; <a href="#">loop-taker drives D05B 57/30</a> )	<b>87/00</b>	<b>Needle- {or looper-} threading devices</b>
69/32	. . Vibration-minimising devices	87/02	. with mechanical means for moving thread through needle { <a href="#">or looper</a> } eye
69/34	. . Hand-wheel clutches	87/04	. with optical devices to assist threading
69/36	. Devices for stopping drive when abnormal conditions occur, e.g. thread breakage	<b>89/00</b>	<b>Seam-ripping devices</b>
<b>71/00</b>	<b>Lubricating or cooling devices</b>	<b>Hand sewing</b>	
71/02	. Loop-taker lubricating devices	<b>91/00</b>	<b>Tools, implements, or accessories for hand sewing</b> ( <a href="#">needles, needle threaders D05B 85/00</a> , <a href="#">D05B 87/00</a> ; <a href="#">appliances for the tailoring trade A41H</a> )
71/04	. Needle cooling devices	91/02	. Bodkins
		91/04	. Thimbles; Finger shields; Palm protectors
<b>Casings, supports, covers, or accessories for sewing machines; Sewing machines combined with auxiliary devices serving purposes other than sewing</b>		91/06	. Work holders or supports
<b>73/00</b>	<b>Casings</b>	91/08	. . Mushrooms; Darning eggs
73/005	. { <a href="#">Doors or covers for accessing inner parts of the machine; Security devices therefor</a> }	91/10	. . Hoops or frames ( <a href="#">for embroidery D05C</a> )
73/02	. Upper casings	91/12	. Tool receptacles
73/04	. Lower casings	91/14	. Thread-spool pins
73/06	. . for free-arm sewing machines	91/16	. Thread-spool receptacles
73/08	. . for column-type sewing machines	<b>93/00</b>	<b>Stitches; Stitch seams</b>
73/10	. . Devices for converting free-arm sewing machines into flat-bed machines	93/02	. strengthened by auxiliary elements, e.g. rivets, staples
73/12	. . Slides; Needle plates	<b>95/00</b>	<b>Preparatory or finishing operations in connection with hand sewing</b>
<b>75/00</b>	<b>Frames, stands, tables, or other furniture adapted to carry sewing machines</b> ( <a href="#">furniture aspects A47B</a> , <a href="#">A47C</a> )	95/04	. Softening material prior to sewing
75/02	. for drop-head sewing machines	95/06	. Flattening, pounding, or pressing stitched seams ( <a href="#">in shoemaking A43D 8/44</a> )
75/04	. with noise-suppressing devices	<b>97/00</b>	<b>Hand sewing processes or apparatus for special work or not otherwise provided for</b>
75/06	. Arrangements, e.g. hinges, for mounting sewing-machine casings to frames, stands, or tables	97/02	. Hand-guided apparatus
<b>77/00</b>	<b>Covers, or portable enclosures, for sewing machines</b>	97/04	. for darning
<b>79/00</b>	<b>Incorporations or adaptations of lighting equipment</b>	97/06	. . using apparatus with latch or bearded needles
<b>81/00</b>	<b>Sewing machines incorporating devices serving purposes other than sewing, e.g. for blowing air, for grinding</b>	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