

# CPC COOPERATIVE PATENT CLASSIFICATION

**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

<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>	<b>3/24</b>	. formed by general-purpose sewing machines modified by attachments, e.g. by detachable devices
1/02	. for making single-thread seams	3/243	. . {for embroidering, e.g. monograms}
1/04	. . Running-stitch seams	3/246	. . {for darning}
1/06	. . Single chain-stitch seams	<b>5/00</b>	<b>Sewing machines for temporarily connecting articles, e.g. pairs of socks</b>
1/08	. for making multi-thread seams	<b>7/00</b>	<b>Linking machines, e.g. for joining knitted fabrics</b>
1/10	. . Double chain-stitch seams	<b>9/00</b>	<b>Hem-stitch sewing machines</b>
1/12	. . Lock-stitch seams	<b>11/00</b>	<b>Machines for sewing quilts or mattresses</b> (control of workpiece-holding frames, or of sewing machines, in order to obtain particular seam configuration <a href="#">D05B 21/00</a> )
1/14	. . Combined or alternative chain-stitch and lock-stitch seams	11/005	. {for sewing the edges of mattresses}
1/16	. . Pseudo-lock-stitch seams in which the thread loops do not positively interlock (shoe or welt sewing machines <a href="#">D05B 15/02</a> )	<b>13/00</b>	<b>Machines for sewing sacks</b>
1/18	. . Seams for protecting or securing edges (zig-zag sewing machines <a href="#">D05B 3/02</a> , <a href="#">D05B 3/04</a> )	13/02	. for closing filled bags or sacks (combined with bag- or sack-filling apparatus <a href="#">B65B</a> )
1/20	. . . Overedge seams	<b>15/00</b>	<b>Machines for sewing leather goods</b> (making pseudo-lock-stitch seams <a href="#">D05B 1/16</a> )
1/22	. . . combined with joining or securing seams	15/005	. {Corner sewing of suitcases or bags}
1/24	. for making blind-stitch seams	15/02	. Shoe sewing machines
1/26	. for making fluid-tight seams (sewing machines for concurrently making thread and welded seams <a href="#">D05B 17/00</a> )	15/025	. . {for sewing moccasin-type seams}
<b>Special-purpose or automatic sewing apparatus or machines</b> {(Surgical sewing machines <a href="#">A61B 17/0491</a> )}		15/04	. . for lock-stitch work ( <a href="#">D05B 15/08</a> takes precedence)
<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>	15/06	. . Welt sewing machines
3/02	. with mechanisms for needle-bar movement	15/08	. . . for lock-stitch work
3/025	. . {with a pair of needles mounted on the needle-bar}	15/10	. . Lining sewing machines
3/04	. with mechanisms for work feed	<b>17/00</b>	<b>Sewing machines for concurrently making thread and welded seams</b> (for making non-welded fluid-tight seams <a href="#">D05B 1/26</a> )
3/06	. for sewing buttonholes ({detachable devices <a href="#">D05B 3/24</a> ; } buttonholes <a href="#">A41F 1/02</a> )	<b>19/00</b>	<b>Programme-controlled sewing machines</b> (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> )
3/08	. . for buttonholes with eyelet ends	19/003	. {Zig-zag sewing machines with electric or electronic programming}
3/10	. for making piped openings	19/006	. {Control knobs or display means ( <a href="#">D05B 19/085</a> , <a href="#">D05B 19/105</a> take precedence)}
3/12	. for fastening articles by sewing	19/02	. Sewing machines having electronic memory or micro-processor control unit
3/14	. . perforated or press buttons	19/04	. . characterised by memory aspects
3/16	. . shank buttons	19/06	. . . Physical exchange of memory
3/18	. . hooks or eyelets	19/08	. . . Arrangements for inputting stitch or pattern data to memory; {Editing stitch or pattern data}
3/20	. . labels (labelling fabrics otherwise than by sewing <a href="#">B65C 5/00</a> ; labels or securing means therefor, in general <a href="#">G09F 3/00</a> )	19/085	. . . . {Physical layout of switches or displays; Switches co-operating with the display}
3/22	. . Article-, e.g. button-, feed mechanisms therefor {(work-handling elements for attaching small textile pieces <a href="#">D05B 35/066</a> )}		

19/10	. . . Arrangements for selecting combinations of stitch or pattern data from memory; ( <a href="#">Handling data in order to control stitch format, e.g. size, direction, mirror image</a> )	29/02	. Presser-control devices
19/105	. . . . {Physical layout of switches or displays; Switches co-operating with the display}	29/04	. Pressers in machines for sewing leather
19/12	. . characterised by control of operation of machine	29/06	. Presser feet
19/14	. . . Control of needle movement, e.g. varying amplitude or period of needle movement	29/08	. . comprising relatively-movable parts
19/16	. . . Control of workpiece movement, e.g. modulation of travel of feed dog	29/10	. . with rollers
		29/12	. Presser-foot attachment
<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>	<b>31/00</b>	<b>Workpiece holders or hold-downs in machines for sewing leather</b>
21/002	. {consisting of lateral displacement of the workpieces by a feed-dog or a fluted presser foot}	31/02	. Welt guides
21/005	. {to obtain spiral seams (fixed or adjustable pin holding the work for spiral stitching <a href="#">D05B 35/107</a> )}	<b>33/00</b>	<b>Devices incorporated in sewing machines for supplying or removing the work</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> )}	33/003	. {by equal steps of adjustable length, e.g. for automatically positioning successive buttonhole locations}
		33/006	. {Feeding workpieces separated from piles, e.g. unstacking}
<b>23/00</b>	<b>Sewing apparatus or machines not otherwise provided for (for making zip closures <a href="#">A44B 19/00</a>)</b>	33/02	. and connected, for synchronous operation, with the work-feeding devices of the sewing machine
23/001	. {Straw hat sewing machines}	<b>35/00</b>	<b>Work-feeding or -handling elements not otherwise provided for</b>
23/002	. {Hat hemming sewing machines}	35/02	. for facilitating seaming; Hem-turning elements; Hemmers ( <a href="#">D05B 35/062 takes precedence</a> )
23/003	. {Sewing machines for straw cases, wisps of straw or canvas shoes}	35/04	. . with movable tools
23/004	. {Sewing machines for ribbing corsets}	35/06	. for attaching bands, ribbons, strips, or tapes or for binding
23/005	. {Sewing machines specially adapted for binding or uniting carpets}	35/062	. . {with hem-turning ( <a href="#">D05B 35/066 takes precedence</a> )}
23/006	. {Sewing machines for making cylindrical articles}	35/064	. . {for attaching slide fasteners (connection of the interlocking member to the stringer tape <a href="#">A44B 19/40</a> )}
23/007	. {Sewing units for assembling parts of knitted panties or closing the stocking toe part}	35/066	. . {for attaching small textile pieces, e.g. labels, belt loops}
23/008	. . {Line closers, i.e. sewing units for forming the body portion of the panty hose}	35/068	. . . {for attaching belt loops}
23/009	. . {Toe closers}	35/08	. for ruching, gathering, casing, or filling lace, ribbons, or bindings; Pleating devices; Cuttlers; Gathering feet; Crimpers; Curlers; Rufflers
<b>25/00</b>	<b>Sewing units consisting of combinations of several sewing machines</b>	35/085	. . {for making folds transversely to the sewing direction}
		35/10	. Edge guides
<b>Sewing-machine elements for feeding, positioning, handling, or treating the work</b>		35/102	. . {Edge guide control systems with edge sensors}
<b>27/00</b>	<b>Work-feeding means</b>	35/105	. . {Guiding while stretching the workpiece, e.g. by means of weighted clips}
27/02	. with feed dogs having horizontal and vertical movements	35/107	. . {Fixed or adjustable pin holding the work, e.g. for circular or spiral stitching}
27/04	. . arranged above the workpieces	35/12	. Indicators for positioning work, e.g. with graduated scales
27/06	. . arranged above and below the workpieces	<b>37/00</b>	<b>Devices incorporated in sewing machines for slitting, grooving, or cutting (<a href="#">severing sewing-threads D05B 65/00</a>)</b>
27/08	. . with differential feed motions	37/02	. Slitting or grooving devices
27/10	. with rotary circular feed members	37/04	. Cutting devices
27/12	. . rotating continuously	37/06	. . with oscillating tools
27/14	. . rotating discontinuously	37/063	. . . {in synchronism with the movement of the needle bar or the work-feeding means}
27/16	. . with differential feed motions	37/066	. . . . {Pinking}
27/18	. . Feed cups	37/08	. . with rotatable tools
27/185	. . . {Guides or supports for the work presented to the feed cups, e.g. uncurling guides}	37/085	. . . {Pinking}
27/20	. constituted by sewing needles	37/10	. . with heated tools
27/22	. with means for setting length of stitch		
27/24	. Feed-dog lifting and lowering devices		
27/26	. in machines for sewing leather		
<b>29/00</b>	<b>Pressers; Presser feet (<a href="#">for feeding D05B 27/04</a>)</b>		

<b>39/00</b>	<b>Workpiece carriers</b> (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> )	57/24	<ul style="list-style-type: none"> <li>. . . with lower-thread packages mounted for controlled sliding movements</li> </ul>
39/005	<ul style="list-style-type: none"> <li>. {Quilting frames}</li> </ul>	57/26	<ul style="list-style-type: none"> <li>. Bobbin holders or casings; Bobbin holder or case guards; Bobbin discharge devices</li> </ul>
<b>41/00</b>	<b>Work-collecting devices</b>	57/265	<ul style="list-style-type: none"> <li>. . . {for looptakers with vertical axis}</li> </ul>
<b><u>Sewing-machine elements for supplying, handling, or treating thread material</u></b>		57/28	<ul style="list-style-type: none"> <li>. Applications of bobbins for storing the lower thread</li> </ul>
<b>43/00</b>	<b>Spool-pin assemblies incorporated in sewing machines</b>	57/30	<ul style="list-style-type: none"> <li>. Driving-gear for loop takers</li> </ul>
<b>45/00</b>	<b>Applications of measuring devices for determining the length of threads used in sewing machines</b> (measuring devices in embroidery machines <a href="#">D05C</a> , in general <a href="#">G01B</a> )	57/32	<ul style="list-style-type: none"> <li>. . . in chain-stitch sewing machines</li> </ul>
<b>47/00</b>	<b>Needle-thread tensioning devices; Applications of tensometers</b>	57/34	<ul style="list-style-type: none"> <li>. . . in overedge-stitch sewing machines</li> </ul>
47/02	<ul style="list-style-type: none"> <li>. Manually-controlled tensioning devices</li> </ul>	57/36	<ul style="list-style-type: none"> <li>. . . in lock-stitch sewing machines</li> </ul>
47/04	<ul style="list-style-type: none"> <li>. Automatically-controlled tensioning devices</li> </ul>	57/38	<ul style="list-style-type: none"> <li>. . . Shuttle drives</li> </ul>
47/06	<ul style="list-style-type: none"> <li>. 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>)</li> </ul>	<b>59/00</b>	<b>Applications of bobbin-winding or -changing devices; Indicating or control devices associated therewith</b>
<b>49/00</b>	<b>Take-up devices, e.g. levers, for the needle thread</b>	59/02	<ul style="list-style-type: none"> <li>. Devices for determining or indicating the length of thread still on the bobbin</li> </ul>
49/02	<ul style="list-style-type: none"> <li>. operated by cams or linkages</li> </ul>	59/04	<ul style="list-style-type: none"> <li>. Devices for changing the bobbin</li> </ul>
49/04	<ul style="list-style-type: none"> <li>. rotary</li> </ul>	<b>61/00</b>	<b>Loop holders; Loop spreaders; Stitch-forming fingers</b>
49/06	<ul style="list-style-type: none"> <li>. for machines for sewing leather</li> </ul>	<b>63/00</b>	<b>Devices associated with the loop-taker thread, e.g. for tensioning</b>
<b>51/00</b>	<b>Applications of needle-thread guards; Thread-break detectors</b> (for embroidery machines <a href="#">D05C 11/00</a> )	63/02	<ul style="list-style-type: none"> <li>. Loop-taker thread take-up levers</li> </ul>
<b>53/00</b>	<b>Thread- or cord-laying mechanisms; Thread fingers</b>	63/04	<ul style="list-style-type: none"> <li>. Loop-taker thread guards</li> </ul>
<b>55/00</b>	<b>Needle holders; Needle bars</b> (needles <a href="#">D05B 85/00</a> )	<b>65/00</b>	<b>Devices for severing the needle or lower thread</b>
55/02	<ul style="list-style-type: none"> <li>. Devices for fastening needles to needle bars</li> </ul>	65/003	<ul style="list-style-type: none"> <li>. {the thread being engaged manually against the cutting edge of a fixedly arranged knife}</li> </ul>
55/04	<ul style="list-style-type: none"> <li>. Devices for inserting needles</li> </ul>	65/006	<ul style="list-style-type: none"> <li>. {with heated tools}</li> </ul>
55/06	<ul style="list-style-type: none"> <li>. Needle guides; Needle protectors (finger-protecting devices <a href="#">D05B 83/00</a>)</li> </ul>	65/02	<ul style="list-style-type: none"> <li>. controlled by the sewing mechanisms {(<a href="#">D05B 65/006</a> takes precedence)}</li> </ul>
55/08	<ul style="list-style-type: none"> <li>. Driving arrangements for curved needles</li> </ul>	65/04	<ul style="list-style-type: none"> <li>. controlled by the workpieces {(<a href="#">D05B 65/006</a> takes precedence)}</li> </ul>
55/10	<ul style="list-style-type: none"> <li>. Needle bars for multiple-needle sewing machines</li> </ul>	65/06	<ul style="list-style-type: none"> <li>. and for disposing of the severed thread end; {Catching or wiping devices for the severed thread}</li> </ul>
55/12	<ul style="list-style-type: none"> <li>. . . with provision for varying the distance between the needles</li> </ul>	<b>67/00</b>	<b>Devices incorporated in sewing machines for lubricating, waxing, or colouring the threads</b>
55/14	<ul style="list-style-type: none"> <li>. Needle-bar drives</li> </ul>	<b><u>Driving-gear, control, lubricating, or cooling devices for sewing machines</u></b>	
55/16	<ul style="list-style-type: none"> <li>. . . with provision for disengaging individual needle bars</li> </ul>	<b>69/00</b>	<b>Driving-gear; Control devices</b>
<b>57/00</b>	<b>Loop takers, e.g. loopers</b>	69/02	<ul style="list-style-type: none"> <li>. Mechanical drives</li> </ul>
57/02	<ul style="list-style-type: none"> <li>. for chain-stitch sewing machines, e.g. oscillating</li> </ul>	69/04	<ul style="list-style-type: none"> <li>. . . Manual drives</li> </ul>
57/04	<ul style="list-style-type: none"> <li>. . . rotary</li> </ul>	69/06	<ul style="list-style-type: none"> <li>. . . Pedal drives</li> </ul>
57/06	<ul style="list-style-type: none"> <li>. for overedge-stitch sewing machines</li> </ul>	69/08	<ul style="list-style-type: none"> <li>. Fluid drives, e.g. pneumatic</li> </ul>
57/08	<ul style="list-style-type: none"> <li>. for lock-stitch sewing machines</li> </ul>	69/10	<ul style="list-style-type: none"> <li>. Electrical or electromagnetic drives</li> </ul>
57/10	<ul style="list-style-type: none"> <li>. . . Shuttles</li> </ul>	69/12	<ul style="list-style-type: none"> <li>. . . using rotary electric motors</li> </ul>
57/12	<ul style="list-style-type: none"> <li>. . . . oscillating</li> </ul>	69/125	<ul style="list-style-type: none"> <li>. . . . {Arrangement of clutch-brake construction}</li> </ul>
57/14	<ul style="list-style-type: none"> <li>. . . . with rotary hooks</li> </ul>	69/14	<ul style="list-style-type: none"> <li>. Devices for changing speed or for reversing direction of rotation</li> </ul>
57/143	<ul style="list-style-type: none"> <li>. . . . . {Vertical axis type}</li> </ul>	69/16	<ul style="list-style-type: none"> <li>. . . mechanical</li> </ul>
57/146	<ul style="list-style-type: none"> <li>. . . . . {Inclined axis type}</li> </ul>	69/18	<ul style="list-style-type: none"> <li>. . . electric {, e.g. foot pedals}</li> </ul>
57/16	<ul style="list-style-type: none"> <li>. . . . with bobbin casings guided in tracks</li> </ul>	69/20	<ul style="list-style-type: none"> <li>. Control devices responsive to the number of stitches made</li> </ul>
57/18	<ul style="list-style-type: none"> <li>. . . . with bobbin casings held by removable caps</li> </ul>	69/22	<ul style="list-style-type: none"> <li>. Devices for stopping drive when sewing tools have reached a predetermined position (electric motor control systems in general <a href="#">H02P</a>)</li> </ul>
57/20	<ul style="list-style-type: none"> <li>. . . . with bobbin casings held by magnetic forces</li> </ul>	69/24	<ul style="list-style-type: none"> <li>. . . Applications of devices for indicating or ascertaining sewing-tool position</li> </ul>
57/22	<ul style="list-style-type: none"> <li>. . . with spool-size bobbin for lower thread</li> </ul>	69/26	<ul style="list-style-type: none"> <li>. . . with automatic means to reduce speed of drive, e.g. in one or more steps</li> </ul>

- 69/28 . Applications of servo devices for tool-positioning purposes
- 69/30 . Details ([work-feeding drives D05B 27/00](#); [needle-bar drives D05B 55/14](#); [loop-taker drives D05B 57/30](#))
- 69/32 . . Vibration-minimising devices
- 69/34 . . Hand-wheel clutches
- 69/36 . Devices for stopping drive when abnormal conditions occur, e.g. thread breakage
- 71/00 Lubricating or cooling devices**
- 71/02 . Loop-taker lubricating devices
- 71/04 . Needle cooling devices

**Casings, supports, covers, or accessories for sewing machines; Sewing machines combined with auxiliary devices serving purposes other than sewing**

- 73/00 Casings**
- 73/005 . {[Doors or covers for accessing inner parts of the machine](#); [Security devices therefor](#)}
- 73/02 . Upper casings
- 73/04 . Lower casings
- 73/06 . . for free-arm sewing machines
- 73/08 . . for column-type sewing machines
- 73/10 . . Devices for converting free-arm sewing machines into flat-bed machines
- 73/12 . . Slides; Needle plates
- 75/00 Frames, stands, tables, or other furniture adapted to carry sewing machines ([furniture aspects A47B, A47C](#))**
- 75/02 . for drop-head sewing machines
- 75/04 . with noise-suppressing devices
- 75/06 . Arrangements, e.g. hinges, for mounting sewing-machine casings to frames, stands, or tables
- 77/00 Covers, or portable enclosures, for sewing machines**
- 79/00 Incorporations or adaptations of lighting equipment**
- 81/00 Sewing machines incorporating devices serving purposes other than sewing, e.g. for blowing air, for grinding**
- 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 17/06](#); [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 receptables
- 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 stitched 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