

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

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 3/24](#); } 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}

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 micro-processor 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}	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
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	31/00	Workpiece holders or hold-downs in machines for sewing leather
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 D05B 35/107)}	33/00	Devices incorporated in sewing machines for supplying or removing the work
21/007	. {to obtain circular or elliptical seams (fixed or adjustable pin holding the work for circular stitching D05B 35/107)}	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}
23/00	Sewing apparatus or machines not otherwise provided for (for making zip closures A44B 19/00)	33/02	. and connected, for synchronous operation, with the work-feeding devices of the sewing machine
23/001	. {Straw hat sewing machines}	35/00	Work-feeding or -handling elements not otherwise provided for
23/002	. {Hat hemming sewing machines}	35/02	. for facilitating seaming; Hem-turning elements; Hemmers {(D05B 35/062 takes precedence)}
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 (D05B 35/066 takes precedence)}
23/006	. {Sewing machines for making cylindrical articles}	35/064	. . {for attaching slide fasteners (connection of the interlocking member to the stringer tape A44B 19/40)}
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
25/00	Sewing units consisting of combinations of several sewing machines	35/085	. . {for making folds transversely to the sewing direction}
		35/10	. Edge guides
Sewing-machine elements for feeding, positioning, handling, or treating the work		35/102	. . {Edge guide control systems with edge sensors}
27/00	Work-feeding means	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	37/00	Devices incorporated in sewing machines for slitting, grooving, or cutting (severing sewing-threads D05B 65/00)
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		
29/00	Pressers; Presser feet (for feeding D05B 27/04)		

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

- 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