

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	3/12	. for fastening articles by sewing
1/02	. for making single-thread seams	3/14	. . perforated or press buttons
1/04	. . Running-stitch seams	3/16	. . shank buttons
1/06	. . Single chain-stitch seams	3/18	. . hooks or eyelets
1/08	. for making multi-thread seams	3/20	. . labels (labelling fabrics otherwise than by sewing B65C 5/00 ; labels or securing means therefor, in general G09F 3/00)
1/10	. . Double chain-stitch seams	3/22	. . Article-, e.g. button-, feed mechanisms therefor {(work-handling elements for attaching small textile pieces D05B 35/066)}
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 (shoe or welt sewing machines D05B 15/02)	3/246	. . {for darning}
1/18	. . Seams for protecting or securing edges (zig-zag sewing machines D05B 3/02, D05B 3/04)	5/00	Sewing machines for temporarily connecting articles, e.g. pairs of socks
1/20	. . . Overedge seams	7/00	Linking machines, e.g. for joining knitted fabrics
1/22	. . . . combined with joining or securing seams	9/00	Hem-stitch sewing machines
1/24	. for making blind-stitch seams	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)
1/26	. for making fluid-tight seams (sewing machines for concurrently making thread and welded seams D05B 17/00)	11/005	. {for sewing the edges of mattresses}
<u>Special-purpose or automatic sewing apparatus or machines</u>		13/00	Machines for sewing sacks
<u>(surgical sewing machines A61B 17/0491)</u>		13/02	. for closing filled bags or sacks (combined with bag- or sack-filling apparatus B65B)
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)	15/00	Machines for sewing leather goods (making pseudo-lock-stitch seams D05B 1/16)
3/02	. with mechanisms for needle-bar movement	15/005	. {Corner sewing of suitcases or bags}
3/025	. . {with a pair of needles mounted on the needle-bar}	15/02	. Shoe sewing machines
3/04	. with mechanisms for work feed	15/025	. . {for sewing moccasin-type seams}
3/06	. for sewing buttonholes ({ detachable devices D05B 3/24 ; } buttonholes A41F 1/02)	15/04	. . for lock-stitch work (D05B 15/08 takes precedence)
3/08	. . for buttonholes with eyelet ends	15/06	. . Welt sewing machines
3/10	. for making piped openings	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)	<u>Sewing-machine elements for feeding, positioning, handling, or treating the work</u>
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)	27/00 Work-feeding means
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 (D05B 19/085 , D05B 19/105 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
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	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 D05B 35/107)}	29/00 Pressers; Presser feet (for feeding D05B 27/04)
21/007	. {to obtain circular or elliptical seams (fixed or adjustable pin holding the work for circular stitching D05B 35/107)}	29/02 . Presser-control devices
23/00	Sewing apparatus or machines not otherwise provided for (for making zip closures A44B 19/00)	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}	31/00 Workpiece holders or hold-downs in machines for sewing leather
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}	33/00 Devices incorporated in sewing machines for supplying or removing the work
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}
25/00	Sewing units consisting of combinations of several sewing machines	33/02 . and connected, for synchronous operation, with the work-feeding devices of the sewing machine
		35/00 Work-feeding or -handling elements not otherwise provided for
		35/02 . for facilitating seaming; Hem-turning elements; Hemmers {(D05B 35/062 takes precedence)}
		35/04 . . with movable tools
		35/06 . for attaching bands, ribbons, strips, or tapes or for binding
		35/062 . . {with hem-turning (D05B 35/066 takes precedence)}
		35/064 . . {for attaching slide fasteners (connection of the interlocking member to the stringer tape A44B 19/40)}
		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
37/00	Devices incorporated in sewing machines for slitting, grooving, or cutting (severing sewing-threads D05B 65/00)	57/00	Loop takers, e.g. loopers
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}
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)	57/146	. . . . {Inclined axis type}
39/005	. {Quilting frames}	57/16	. . . with bobbin casings guided in tracks
41/00	Work-collecting devices	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
		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
		<u>Driving-gear, control, lubricating, or cooling devices for sewing machines</u>	
		69/00	Driving-gear; Control devices
		69/02	. Mechanical drives
<u>Sewing-machine elements for supplying, handling, or treating thread material</u>			
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		

- 69/04 . . Manual drives
 - 69/06 . . Pedal drives
 - 69/08 . Fluid drives, e.g. pneumatic
 - 69/10 . Electrical or electromagnetic drives
 - 69/12 . . using rotary electric motors
 - 69/125 . . . {Arrangement of clutch-brake construction}
 - 69/14 . Devices for changing speed or for reversing direction of rotation
 - 69/16 . . mechanical
 - 69/18 . . electric {, e.g. foot pedals}
 - 69/20 . Control devices responsive to the number of stitches made
 - 69/22 . Devices for stopping drive when sewing tools have reached a predetermined position (electric motor control systems in general [H02P](#))
 - 69/24 . . Applications of devices for indicating or ascertaining sewing-tool position
 - 69/26 . . 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 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 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