

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

1/00	General types of sewing apparatus or machines without mechanism for lateral movement of the needle or the work or both	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)
1/02	. for making single-thread seams		
1/04	. . Running-stitch seams	3/22	. . Article-, e.g. button-, feed mechanisms therefor {(work-handling elements for attaching small textile pieces D05B 35/066)}
1/06	. . Single chain-stitch seams		
1/08	. for making multi-thread seams		
1/10	. . Double chain-stitch seams	3/24	. formed by general-purpose sewing machines modified by attachments, e.g. by detachable devices
1/12	. . Lock-stitch seams		
1/14	. . Combined or alternative chain-stitch and lock-stitch seams	3/243	. . {for embroidering, e.g. monograms}
		3/246	. . {for darning}
1/16	. . Pseudo-lock-stitch seams in which the thread loops do not positively interlock (shoe or welt sewing machines D05B 15/02)	5/00	Sewing machines for temporarily connecting articles, e.g. pairs of socks
1/18	. . Seams for protecting or securing edges (zig-zag sewing machines D05B 3/02 , D05B 3/04)	7/00	Linking machines, e.g. for joining knitted fabrics
1/20	. . . Overedge seams	9/00	Hem-stitch sewing machines
1/22 combined with joining or securing 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)
1/24	. for making blind-stitch seams		
1/26	. for making fluid-tight seams (sewing machines for concurrently making thread and welded seams D05B 17/00)	11/005	. {for sewing the edges of mattresses}
<u>Special-purpose or automatic sewing apparatus or machines</u> {(surgical sewing machines A61B 17/0491)}		13/00	Machines for sewing sacks
		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
3/12	. for fastening articles by sewing	15/10	. . Lining sewing machines
3/14	. . perforated or press buttons	17/00	Sewing machines for concurrently making thread and welded seams (for making non-welded fluid-tight seams D05B 1/26)
3/16	. . shank buttons		

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)	27/02	<ul style="list-style-type: none"> • with feed dogs having horizontal and vertical movements
19/003	• {Zig-zag sewing machines with electric or electronic programming}	27/04	<ul style="list-style-type: none"> • . . arranged above the workpieces
19/006	• {Control knobs or display means (D05B 19/085 , D05B 19/105 take precedence)}	27/06	<ul style="list-style-type: none"> • . . arranged above and below the workpieces
19/02	• Sewing machines having electronic memory or microprocessor control unit	27/08	<ul style="list-style-type: none"> • . . with differential feed motions
19/04	• . . characterised by memory aspects	27/10	<ul style="list-style-type: none"> • with rotary circular feed members
19/06	• . . . Physical exchange of memory	27/12	<ul style="list-style-type: none"> • . . rotating continuously
19/08	• . . . Arrangements for inputting stitch or pattern data to memory {; Editing stitch or pattern data}	27/14	<ul style="list-style-type: none"> • . . rotating discontinuously
19/085	• {Physical layout of switches or displays; Switches co-operating with the display}	27/16	<ul style="list-style-type: none"> • . . with differential feed motions
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}	27/18	<ul style="list-style-type: none"> • . . . Feed cups
19/105	• {Physical layout of switches or displays; Switches co-operating with the display}	27/185	<ul style="list-style-type: none"> • {Guides or supports for the work presented to the feed cups, e.g. uncurling guides}
19/12	• . . characterised by control of operation of machine	27/20	<ul style="list-style-type: none"> • constituted by sewing needles
19/14	• . . . Control of needle movement, e.g. varying amplitude or period of needle movement	27/22	<ul style="list-style-type: none"> • with means for setting length of stitch
19/16	• . . . Control of workpiece movement, e.g. modulation of travel of feed dog	27/24	<ul style="list-style-type: none"> • Feed-dog lifting and lowering devices
		27/26	<ul style="list-style-type: none"> • in machines for sewing leather
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	29/00	Pressers; Presser feet (for feeding D05B 27/04)
21/002	• {consisting of lateral displacement of the workpieces by a feed-dog or a fluted presser foot}	29/02	<ul style="list-style-type: none"> • Presser-control devices
21/005	• {to obtain spiral seams (fixed or adjustable pin holding the work for spiral stitching D05B 35/107)}	29/04	<ul style="list-style-type: none"> • Pressers in machines for sewing leather
21/007	• {to obtain circular or elliptical seams (fixed or adjustable pin holding the work for circular stitching D05B 35/107)}	29/06	<ul style="list-style-type: none"> • Presser feet
23/00	Sewing apparatus or machines not otherwise provided for (for making zip closures A44B 19/00)	29/08	<ul style="list-style-type: none"> • . . comprising relatively-movable parts
23/001	• {Straw hat sewing machines}	29/10	<ul style="list-style-type: none"> • . . with rollers
23/002	• {Hat hemming sewing machines}	29/12	<ul style="list-style-type: none"> • Presser-foot attachment
23/003	• {Sewing machines for straw cases, wisps of straw or canvas shoes}	31/00	Workpiece holders or hold-downs in machines for sewing leather
23/004	• {Sewing machines for ribbing corsets}	31/02	<ul style="list-style-type: none"> • Welt guides
23/005	• {Sewing machines specially adapted for binding or uniting carpets}	33/00	Devices incorporated in sewing machines for supplying or removing the work
23/006	• {Sewing machines for making cylindrical articles}	33/003	<ul style="list-style-type: none"> • {by equal steps of adjustable length, e.g. for automatically positioning successive buttonhole locations}
23/007	• {Sewing units for assembling parts of knitted panties or closing the stocking toe part}	33/006	<ul style="list-style-type: none"> • {Feeding workpieces separated from piles, e.g. unstacking}
23/008	• . . {Line closers, i.e. sewing units for forming the body portion of the panty hose}	33/02	<ul style="list-style-type: none"> • and connected, for synchronous operation, with the work-feeding devices of the sewing machine
23/009	• . . {Toe closers}	35/00	Work-feeding or -handling elements not otherwise provided for
25/00	Sewing units consisting of combinations of several sewing machines	35/02	<ul style="list-style-type: none"> • for facilitating seaming; Hem-turning elements; Hemmers {(D05B 35/062 takes precedence)}
		35/04	<ul style="list-style-type: none"> • . . with movable tools
		35/06	<ul style="list-style-type: none"> • for attaching bands, ribbons, strips, or tapes or for binding
		35/062	<ul style="list-style-type: none"> • . . {with hem-turning (D05B 35/066 takes precedence)}
		35/064	<ul style="list-style-type: none"> • . . {for attaching slide fasteners (connection of the interlocking member to the stringer tape A44B 19/40)}
		35/066	<ul style="list-style-type: none"> • . . {for attaching small textile pieces, e.g. labels, belt loops}
		35/068	<ul style="list-style-type: none"> • . . . {for attaching belt loops}
		35/08	<ul style="list-style-type: none"> • for ruching, gathering, casing, or filling lace, ribbons, or bindings; Pleating devices; Cuttlers; Gathering feet; Crimpers; Curlers; Rufflers
		35/085	<ul style="list-style-type: none"> • . . {for making folds transversely to the sewing direction}
		35/10	<ul style="list-style-type: none"> • Edge guides
		35/102	<ul style="list-style-type: none"> • . . {Edge guide control systems with edge sensors}
		35/105	<ul style="list-style-type: none"> • . . {Guiding while stretching the workpiece, e.g. by means of weighted clips}
		35/107	<ul style="list-style-type: none"> • . . {Fixed or adjustable pin holding the work, e.g. for circular or spiral stitching}
<u>Sewing-machine elements for feeding, positioning, handling, or treating the work</u>			
27/00	Work-feeding means		

35/12	. Indicators for positioning work, e.g. with graduated scales	57/00	Loop takers, e.g. loopers
		57/02	. for chain-stitch sewing machines, e.g. oscillating
37/00	Devices incorporated in sewing machines for slitting, grooving, or cutting (severing sewing-threads D05B 65/00)	57/04	. . rotary
37/02	. Slitting or grooving devices	57/06	. for overedge-stitch sewing machines
37/04	. Cutting devices	57/08	. for lock-stitch sewing machines
37/06	. . with oscillating tools	57/10	. . Shuttles
37/063	. . . {in synchronism with the movement of the needle bar or the work-feeding means}	57/12	. . . oscillating
37/066 {Pinking}	57/14	. . . with rotary hooks
37/08	. . with rotatable tools	57/143 {Vertical axis type}
37/085	. . . {Pinking}	57/146 {Inclined axis type}
37/10	. . with heated tools	57/16	. . . with bobbin casings guided in tracks
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)	57/18	. . . with bobbin casings held by removable caps
39/005	. {Quilting frames}	57/20	. . . with bobbin casings held by magnetic forces
41/00	Work-collecting devices	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
		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}
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		

69/14	. Devices for changing speed or for reversing direction of rotation	85/006	. {Hooked needles}
69/16	. . mechanical	85/02	. with slotted eyes {, i.e. with a slit leading to the eye for thread insertion}
69/18	. . electric {, e.g. foot pedals}	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 (electric motor control systems in general H02P)	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 (work-feeding drives D05B 27/00; needle-bar drives D05B 55/14; loop-taker drives D05B 57/30)	87/00	Needle- {or looper-} threading devices
69/32	. . Vibration-minimising devices	87/02	. with mechanical means for moving thread through needle {or looper} 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	89/00	Seam-ripping devices
71/00	Lubricating or cooling devices	Hand sewing	
71/02	. Loop-taker lubricating devices	91/00	Tools, implements, or accessories for hand sewing (needles, needle threaders D05B 85/00, D05B 87/00; appliances for the tailoring trade A41H)
71/04	. Needle cooling devices	91/02	. Bodkins
Casings, supports, covers, or accessories for sewing machines; Sewing machines combined with auxiliary devices serving purposes other than sewing		91/04	. Thimbles; Finger shields; Palm protectors
73/00	Casings	91/06	. Work holders or supports
73/005	. {Doors or covers for accessing inner parts of the machine; Security devices therefor}	91/08	. . Mushrooms; Darning eggs
73/02	. Upper casings	91/10	. . Hoops or frames (for embroidery D05C)
73/04	. Lower casings	91/12	. Tool receptacles
73/06	. . for free-arm sewing machines	91/14	. Thread-spool pins
73/08	. . for column-type sewing machines	91/16	. Thread-spool receptacles
73/10	. . Devices for converting free-arm sewing machines into flat-bed machines	93/00	Stitches; Stitch seams
73/12	. . Slides; Needle plates	93/02	. strengthened by auxiliary elements, e.g. rivets, staples
75/00	Frames, stands, tables, or other furniture adapted to carry sewing machines (furniture aspects A47B, A47C)	95/00	Preparatory or finishing operations in connection with hand sewing
75/02	. for drop-head sewing machines	95/04	. Softening material prior to sewing
75/04	. with noise-suppressing devices	95/06	. Flattening, pounding, or pressing stitched seams (in shoemaking A43D 8/44)
75/06	. Arrangements, e.g. hinges, for mounting sewing-machine casings to frames, stands, or tables	97/00	Hand sewing processes or apparatus for special work or not otherwise provided for
77/00	Covers, or portable enclosures, for sewing machines	97/02	. Hand-guided apparatus
79/00	Incorporations or adaptations of lighting equipment	97/04	. for darning
81/00	Sewing machines incorporating devices serving purposes other than sewing, e.g. for blowing air, for grinding	97/06	. . using apparatus with latch or bearded needles
83/00	Guards or like devices for preventing injury to operator (machine safety devices in general F16P)	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

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}