

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
		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 (labelling fabrics otherwise than by sewing B65C 5/00 ; labels or securing means therefor, in general G09F 3/00)
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 D05B 35/066)}
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 (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>			
(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)	13/00	Machines for sewing sacks
		13/02	. for closing filled bags or sacks (combined with bag- or sack-filling apparatus B65B)
3/02	. with mechanisms for needle-bar movement	15/00	Machines for sewing leather goods (making pseudo-lock-stitch seams D05B 1/16)
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 ({ detachable devices D05B 3/24 ;} buttonholes A41F 1/02)	15/025	. . {for sewing moccasin-type seams}
		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
19/003	. {Zig-zag sewing machines with electric or electronic programming}	27/02
19/006	. {Control knobs or display means (D05B 19/085 , D05B 19/105 take precedence)}	27/04
19/02	. Sewing machines having electronic memory or microprocessor control unit	27/06
19/04	. . characterised by memory aspects	27/08
19/06	. . . Physical exchange of memory	27/10
19/08	. . . Arrangements for inputting stitch or pattern data to memory {; Editing stitch or pattern data}	27/12
19/085 {Physical layout of switches or displays; Switches co-operating with the display}	27/14
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
19/105 {Physical layout of switches or displays; Switches co-operating with the display}	27/18
19/12	. . characterised by control of operation of machine	27/185
19/14	. . . Control of needle movement, e.g. varying amplitude or period of needle movement	27/20
19/16	. . . Control of workpiece movement, e.g. modulation of travel of feed dog	27/22
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
21/002	. {consisting of lateral displacement of the workpieces by a feed-dog or a fluted presser foot}	27/26
21/005	. {to obtain spiral seams (fixed or adjustable pin holding the work for spiral stitching D05B 35/107)}	29/00
21/007	. {to obtain circular or elliptical seams (fixed or adjustable pin holding the work for circular stitching D05B 35/107)}	29/02
23/00	Sewing apparatus or machines not otherwise provided for (for making zip closures A44B 19/00)	29/04
23/001	. {Straw hat sewing machines}	29/06
23/002	. {Hat hemming sewing machines}	29/08
23/003	. {Sewing machines for straw cases, wisps of straw or canvas shoes}	29/10
23/004	. {Sewing machines for ribbing corsets}	29/12
23/005	. {Sewing machines specially adapted for binding or uniting carpets}	29/12
23/006	. {Sewing machines for making cylindrical articles}	31/00
23/007	. {Sewing units for assembling parts of knitted panties or closing the stocking toe part}	31/02
23/008	. . {Line closers, i.e. sewing units for forming the body portion of the panty hose}	33/00
23/009	. . {Toe closers}	33/003
25/00	Sewing units consisting of combinations of several sewing machines	33/006
		33/02
		35/00
		35/02
		35/04
		35/06
		35/062
		35/064
		35/066
		35/068
		35/08
		35/085
		35/10
		35/102
		Work-feeding means
		. with feed dogs having horizontal and vertical movements
		. . arranged above the workpieces
		. . arranged above and below the workpieces
		. . with differential feed motions
		. with rotary circular feed members
		. . rotating continuously
		. . rotating discontinuously
		. . with differential feed motions
		. . Feed cups
		. . . {Guides or supports for the work presented to the feed cups, e.g. uncurling guides}
		. constituted by sewing needles
		. with means for setting length of stitch
		. Feed-dog lifting and lowering devices
		. in machines for sewing leather
		Pressers; Presser feet (for feeding D05B 27/04)
		. Presser-control devices
		. Pressers in machines for sewing leather
		. Presser feet
		. . comprising relatively-movable parts
		. . with rollers
		. Presser-foot attachment
		Workpiece holders or hold-downs in machines for sewing leather
		. Welt guides
		Devices incorporated in sewing machines for supplying or removing the work
		. {by equal steps of adjustable length, e.g. for automatically positioning successive buttonhole locations}
		. {Feeding workpieces separated from piles, e.g. unstacking}
		. and connected, for synchronous operation, with the work-feeding devices of the sewing machine
		Work-feeding or -handling elements not otherwise provided for
		. for facilitating seaming; Hem-turning elements; Hemmers {(D05B 35/062 takes precedence)}
		. . with movable tools
		. for attaching bands, ribbons, strips, or tapes or for binding
		. . {with hem-turning (D05B 35/066 takes precedence)}
		. . {for attaching slide fasteners (connection of the interlocking member to the stringer tape A44B 19/40)}
		. . {for attaching small textile pieces, e.g. labels, belt loops}
		. . . {for attaching belt loops}
		. for ruching, gathering, casing, or filling lace, ribbons, or bindings; Pleating devices; Cuttlers; Gathering feet; Crimpers; Curlers; Rufflers
		. . {for making folds transversely to the sewing direction}
		. Edge guides
		. . {Edge guide control systems with edge sensors}

69/04	. . Manual drives	83/00	Guards or like devices for preventing injury to operator (machine safety devices in general F16P)
69/06	. . Pedal drives		
69/08	. Fluid drives, e.g. pneumatic		
69/10	. Electrical or electromagnetic drives		
69/12	. . using rotary electric motors	85/00	Needles; Needle threaders; Seam-ripping devices
69/125	. . . { Arrangement of clutch-brake construction }	85/003	Needles (surgical needles A61B 17/06 ; manufacture of needles B21G 1/00)
69/14	. Devices for changing speed or for reversing direction of rotation	85/006	. {with two tips and an eye in the middle}
69/16	. . mechanical	85/02	. {Hooked needles}
69/18	. . electric {, e.g. foot pedals }	85/04	. with slotted eyes {, i.e. with a slit leading to the eye for thread insertion}
69/20	. Control devices responsive to the number of stitches made	85/06	. Spring or bearded needles
69/22	. Devices for stopping drive when sewing tools have reached a predetermined position (electric motor control systems in general H02P)	85/06	. Curved needles
69/24	. . Applications of devices for indicating or ascertaining sewing-tool position	85/08	. Flexible needles
69/26	. . with automatic means to reduce speed of drive, e.g. in one or more steps	85/10	. Hollow needles
69/28	. Applications of servo devices for tool-positioning purposes	85/12	. Coated needles
69/30	. Details (work-feeding drives D05B 27/00 ; needle-bar drives D05B 55/14 ; loop-taker drives D05B 57/30)	85/14	. Latch needles
69/32	. . Vibration-minimising devices	87/00	Needle- {or looper-} threading devices
69/34	. . Hand-wheel clutches	87/02	. with mechanical means for moving thread through needle {or looper} eye
69/36	. Devices for stopping drive when abnormal conditions occur, e.g. thread breakage	87/04	. with optical devices to assist threading
71/00	Lubricating or cooling devices	89/00	Seam-ripping devices
71/02	. Loop-taker lubricating devices		
71/04	. Needle cooling devices		
<u>Casings, supports, covers, or accessories for sewing machines; Sewing machines combined with auxiliary devices serving purposes other than sewing</u>			
73/00	Casings	Hand sewing	
73/005	. { Doors or covers for accessing inner parts of the machine ; Security devices therefor }	91/00	Tools, implements, or accessories for hand sewing (needles, needle threaders D05B 85/00 , D05B 87/00 ; appliances for the tailoring trade A41H)
73/02	. Upper casings	91/02	. Bodkins
73/04	. Lower casings	91/04	. Thimbles; Finger shields; Palm protectors
73/06	. . for free-arm sewing machines	91/06	. Work holders or supports
73/08	. . for column-type sewing machines	91/08	. . Mushrooms; Darning eggs
73/10	. . Devices for converting free-arm sewing machines into flat-bed machines	91/10	. . Hoops or frames (for embroidery D05C)
73/12	. . Slides; Needle plates	91/12	. Tool receptacles
75/00	Frames, stands, tables, or other furniture adapted to carry sewing machines (furniture aspects A47B , A47C)	91/14	. Thread-spool pins
75/02	. for drop-head sewing machines	91/16	. Thread-spool receptacles
75/04	. with noise-suppressing devices	93/00	Stitches; Stitch seams
75/06	. Arrangements, e.g. hinges, for mounting sewing-machine casings to frames, stands, or tables	93/02	. strengthened by auxiliary elements, e.g. rivets, staples
77/00	Covers, or portable enclosures, for sewing machines	95/00	Preparatory or finishing operations in connection with hand sewing
79/00	Incorporations or adaptations of lighting equipment	95/04	. Softening material prior to sewing
81/00	Sewing machines incorporating devices serving purposes other than sewing, e.g. for blowing air, for grinding	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