

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
1/02	. for making single-thread seams	3/20	. . labels (labelling fabrics otherwise than by sewing B65C 5/00 ; labels or securing means therefor, in general G09F 3/00)
1/04	. . 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	3/24	. formed by general-purpose sewing machines modified by attachments, e.g. by detachable devices
1/08	. for making multi-thread seams	3/243	. . {for embroidering, e.g. monograms}
1/10	. . Double chain-stitch seams	3/246	. . {for darning}
1/12	. . Lock-stitch seams	5/00	Sewing machines for temporarily connecting articles, e.g. pairs of socks
1/14	. . Combined or alternative chain-stitch and lock-stitch seams	7/00	Linking machines, e.g. for joining knitted fabrics
1/16	. . Pseudo-lock-stitch seams in which the thread loops do not positively interlock (shoe or welt sewing machines D05B 15/02)	9/00	Hem-stitch sewing machines
1/18	. . Seams for protecting or securing edges (zig-zag sewing machines D05B 3/02 , D05B 3/04)	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)
1/20	. . . Overedge seams	11/005	. {for sewing the edges of mattresses}
1/22	. . . combined with joining or securing seams	13/00	Machines for sewing sacks
1/24	. for making blind-stitch seams	13/02	. for closing filled bags or sacks (combined with bag- or sack-filling apparatus B65B)
1/26	. for making fluid-tight seams (sewing machines for concurrently making thread and welded seams D05B 17/00)	15/00	Machines for sewing leather goods (making pseudo-lock-stitch seams D05B 1/16)
<u>Special-purpose or automatic sewing apparatus or machines</u> <u>{(surgical sewing machines A61B 17/0491)}</u>		15/005	. {Corner sewing of suitcases or bags}
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)	15/02	. Shoe sewing machines
3/02	. with mechanisms for needle-bar movement	15/025	. . {for sewing moccasin-type seams}
3/025	. . {with a pair of needles mounted on the needle-bar}	15/04	. . for lock-stitch work (D05B 15/08 takes precedence)
3/04	. with mechanisms for work feed	15/06	. . Welt sewing machines
3/06	. for sewing buttonholes ({detachable devices D05B 3/24 ; } buttonholes A41F 1/02)	15/08	. . . for lock-stitch work
3/08	. . for buttonholes with eyelet ends	15/10	. . Lining sewing machines
3/10	. for making piped openings	17/00	Sewing machines for concurrently making thread and welded seams (for making non-welded fluid-tight seams D05B 1/26)
3/12	. for fastening articles by sewing		
3/14	. . perforated or press buttons		
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	<ul style="list-style-type: none"> {Zig-zag sewing machines with electric or electronic programming} 	27/04	<ul style="list-style-type: none"> <ul style="list-style-type: none"> arranged above the workpieces
19/006	<ul style="list-style-type: none"> {Control knobs or display means (D05B 19/085, D05B 19/105 take precedence)} 	27/06	<ul style="list-style-type: none"> <ul style="list-style-type: none"> arranged above and below the workpieces
19/02	<ul style="list-style-type: none"> Sewing machines having electronic memory or microprocessor control unit 	27/08	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with differential feed motions
19/04	<ul style="list-style-type: none"> <ul style="list-style-type: none"> characterised by memory aspects 	27/10	<ul style="list-style-type: none"> with rotary circular feed members
19/06	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Physical exchange of memory 	27/12	<ul style="list-style-type: none"> <ul style="list-style-type: none"> rotating continuously
19/08	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Arrangements for inputting stitch or pattern data to memory{; Editing stitch or pattern data} 	27/14	<ul style="list-style-type: none"> <ul style="list-style-type: none"> rotating discontinuously
19/085	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Physical layout of switches or displays; Switches co-operating with the display} 	27/16	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with differential feed motions
19/10	<ul style="list-style-type: none"> <ul style="list-style-type: none"> 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"> <ul style="list-style-type: none"> Feed cups
19/105	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Physical layout of switches or displays; Switches co-operating with the display} 	27/185	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Guides or supports for the work presented to the feed cups, e.g. uncurling guides}
19/12	<ul style="list-style-type: none"> <ul style="list-style-type: none"> characterised by control of operation of machine 	27/20	<ul style="list-style-type: none"> constituted by sewing needles
19/14	<ul style="list-style-type: none"> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> <ul style="list-style-type: none"> 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
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	27/26	<ul style="list-style-type: none"> in machines for sewing leather
21/002	<ul style="list-style-type: none"> {consisting of lateral displacement of the workpieces by a feed-dog or a fluted presser foot} 	29/00	Pressers; Presser feet (for feeding D05B 27/04)
21/005	<ul style="list-style-type: none"> {to obtain spiral seams (fixed or adjustable pin holding the work for spiral stitching D05B 35/107)} 	29/02	<ul style="list-style-type: none"> Presser-control devices
21/007	<ul style="list-style-type: none"> {to obtain circular or elliptical seams (fixed or adjustable pin holding the work for circular stitching D05B 35/107)} 	29/04	<ul style="list-style-type: none"> Pressers in machines for sewing leather
23/00	Sewing apparatus or machines not otherwise provided for (for making zip closures A44B 19/00)	29/06	<ul style="list-style-type: none"> Presser feet
23/001	<ul style="list-style-type: none"> {Straw hat sewing machines} 	29/08	<ul style="list-style-type: none"> <ul style="list-style-type: none"> comprising relatively-movable parts
23/002	<ul style="list-style-type: none"> {Hat hemming sewing machines} 	29/10	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with rollers
23/003	<ul style="list-style-type: none"> {Sewing machines for straw cases, wisps of straw or canvas shoes} 	29/12	<ul style="list-style-type: none"> Presser-foot attachment
23/004	<ul style="list-style-type: none"> {Sewing machines for ribbing corsets} 	31/00	Workpiece holders or hold-downs in machines for sewing leather
23/005	<ul style="list-style-type: none"> {Sewing machines specially adapted for binding or uniting carpets} 	31/02	<ul style="list-style-type: none"> Welt guides
23/006	<ul style="list-style-type: none"> {Sewing machines for making cylindrical articles} 	33/00	Devices incorporated in sewing machines for supplying or removing the work
23/007	<ul style="list-style-type: none"> {Sewing units for assembling parts of knitted panties or closing the stocking toe part} 	33/003	<ul style="list-style-type: none"> {by equal steps of adjustable length, e.g. for automatically positioning successive buttonhole locations}
23/008	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Line closers, i.e. sewing units for forming the body portion of the panty hose} 	33/006	<ul style="list-style-type: none"> {Feeding workpieces separated from piles, e.g. unstacking}
23/009	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Toe closers} 	33/02	<ul style="list-style-type: none"> and connected, for synchronous operation, with the work-feeding devices of the sewing machine
25/00	Sewing units consisting of combinations of several sewing machines	35/00	Work-feeding or -handling elements not otherwise provided for
<u>Sewing-machine elements for feeding, positioning, handling, or treating the work</u>		35/02	<ul style="list-style-type: none"> for facilitating seaming; Hem-turning elements; Hemmers {(D05B 35/062 takes precedence)}
27/00	Work-feeding means	35/04	<ul style="list-style-type: none"> <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"> <ul style="list-style-type: none"> {with hem-turning (D05B 35/066 takes precedence)}
		35/064	<ul style="list-style-type: none"> <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"> <ul style="list-style-type: none"> {for attaching small textile pieces, e.g. labels, belt loops}
		35/068	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <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"> <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"> <ul style="list-style-type: none"> {Edge guide control systems with edge sensors}
		35/105	<ul style="list-style-type: none"> <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"> <ul style="list-style-type: none"> {Fixed or adjustable pin holding the work, e.g. for circular or spiral stitching}

35/12	<ul style="list-style-type: none"> Indicators for positioning work, e.g. with graduated scales 	57/00	Loop takers, e.g. loopers
37/00	Devices incorporated in sewing machines for slitting, grooving, or cutting (severing sewing-threads D05B 65/00)	57/02	<ul style="list-style-type: none"> for chain-stitch sewing machines, e.g. oscillating
37/02	<ul style="list-style-type: none"> Slitting or grooving devices 	57/04	<ul style="list-style-type: none"> <ul style="list-style-type: none"> rotary
37/04	<ul style="list-style-type: none"> Cutting devices 	57/06	<ul style="list-style-type: none"> for overedge-stitch sewing machines
37/06	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with oscillating tools 	57/08	<ul style="list-style-type: none"> for lock-stitch sewing machines
37/063	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {in synchronism with the movement of the needle bar or the work-feeding means} 	57/10	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Shuttles
37/066	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Pinking} 	57/12	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> oscillating
37/08	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with rotatable tools 	57/14	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> with rotary hooks
37/085	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Pinking} 	57/143	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Vertical axis type}
37/10	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with heated tools 	57/146	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Inclined 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)	57/16	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with bobbin casings guided in tracks
39/005	<ul style="list-style-type: none"> {Quilting frames} 	57/18	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with bobbin casings held by removable caps
41/00	Work-collecting devices	57/20	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with bobbin casings held by magnetic forces
<u>Sewing-machine elements for supplying, handling, or treating thread material</u>		57/22	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with spool-size bobbin for lower thread
43/00	Spool-pin assemblies incorporated in sewing machines	57/24	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with lower-thread packages mounted for controlled sliding movements
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)	57/26	<ul style="list-style-type: none"> Bobbin holders or casings; Bobbin holder or case guards; Bobbin discharge devices
47/00	Needle-thread tensioning devices; Applications of tensometers	57/265	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {for looptakers with vertical axis}
47/02	<ul style="list-style-type: none"> Manually-controlled tensioning devices 	57/28	<ul style="list-style-type: none"> Applications of bobbins for storing the lower thread
47/04	<ul style="list-style-type: none"> Automatically-controlled tensioning devices 	57/30	<ul style="list-style-type: none"> Driving-gear for loop takers
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) 	57/32	<ul style="list-style-type: none"> <ul style="list-style-type: none"> in chain-stitch sewing machines
49/00	Take-up devices, e.g. levers, for the needle thread	57/34	<ul style="list-style-type: none"> <ul style="list-style-type: none"> in overedge-stitch sewing machines
49/02	<ul style="list-style-type: none"> operated by cams or linkages 	57/36	<ul style="list-style-type: none"> <ul style="list-style-type: none"> in lock-stitch sewing machines
49/04	<ul style="list-style-type: none"> rotary 	57/38	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Shuttle drives
49/06	<ul style="list-style-type: none"> for machines for sewing leather 	59/00	Applications of bobbin-winding or -changing devices; Indicating or control devices associated therewith
51/00	Applications of needle-thread guards; Thread-break detectors (for embroidery machines D05C 11/00)	59/02	<ul style="list-style-type: none"> Devices for determining or indicating the length of thread still on the bobbin
53/00	Thread- or cord-laying mechanisms; Thread fingers	59/04	<ul style="list-style-type: none"> Devices for changing the bobbin
55/00	Needle holders; Needle bars (needles D05B 85/00)	61/00	Loop holders; Loop spreaders; Stitch-forming fingers
55/02	<ul style="list-style-type: none"> Devices for fastening needles to needle bars 	63/00	Devices associated with the loop-taker thread, e.g. for tensioning
55/04	<ul style="list-style-type: none"> Devices for inserting needles 	63/02	<ul style="list-style-type: none"> Loop-taker thread take-up levers
55/06	<ul style="list-style-type: none"> Needle guides; Needle protectors (finger-protecting devices D05B 83/00) 	63/04	<ul style="list-style-type: none"> Loop-taker thread guards
55/08	<ul style="list-style-type: none"> Driving arrangements for curved needles 	65/00	Devices for severing the needle or lower thread
55/10	<ul style="list-style-type: none"> Needle bars for multiple-needle sewing machines 	65/003	<ul style="list-style-type: none"> {the thread being engaged manually against the cutting edge of a fixedly arranged knife}
55/12	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with provision for varying the distance between the needles 	65/006	<ul style="list-style-type: none"> {with heated tools}
55/14	<ul style="list-style-type: none"> Needle-bar drives 	65/02	<ul style="list-style-type: none"> controlled by the sewing mechanisms {(D05B 65/006 takes precedence)}
55/16	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with provision for disengaging individual needle bars 	65/04	<ul style="list-style-type: none"> controlled by the workpieces {(D05B 65/006 takes precedence)}
		65/06	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Mechanical drives
		69/04	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Manual drives
		69/06	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Pedal drives
		69/08	<ul style="list-style-type: none"> Fluid drives, e.g. pneumatic
		69/10	<ul style="list-style-type: none"> Electrical or electromagnetic drives
		69/12	<ul style="list-style-type: none"> <ul style="list-style-type: none"> using rotary electric motors
		69/125	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {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