

52 Sewing and embroidery

52a Sewing

52b Embroidery

52a Sewing

- 52a-1/01 Running-stitch sewing machines
- 52a-1/02 Belt sewing machines (47d)
- 52a-2/01 Single chain-stitch sewing machines
- 52a-2/02 Special single-thread sewing machines
- 52a-3 Double chain-stitch sewing machines
- Double lock-stitch sewing machines
- 52a-4 with long shuttles
- 52a-5 with hook shuttles
- 52a-6 with hooks
- 52a-7/01 with large bobbin of underthread
- 52a-7/02 with longitudinally sliding underthread spool
- 52a-8 Sewing machines for both chain and lock stitch
- Sewing machines for ornamental stitches**
- 52a-9/01 Ornamental stitch sewing machines, in general
- 52a-9/02 Zigzag sewing machines
- 52a-9/03 Buttonhole sewing machines, with two needles, with vibrating needle
- 52a-9/04 Multiple needle sewing machines, with thread take-up lever, with variable needle distance, disconnectable needle bar
- 52a-9/05 Blind stitch sewing machines
- 52a-9/06 Seams, blind seams, hemstitch, overcast seams, leather seams, ornamental edges, buttonholes
- 52a-10/01 Hemstitch sewing machines
- 52a-10/02 Hemstitch sewing devices
- 52a-11 Sewing machines for folded edges
- 52a-12/01 Overcast seam sewing machines
- 52a-12/02 Overcast seam sewing machines with feed drums
- 52a-12/03 Chaining machines
- 52a-12/04 Overcast seam sewing devices
- Sewing machines for leather**
- 52a-13/01 Chain stitch fastening machines
- 52a-13/02 Chain stitch welt-perforating machines
- 52a-14/01 Double lock stitch fastening machines
- 52a-14/02 Double lock stitch welt-perforating machines
- 52a-14/03 Double machines with curved needles
- 52a-14/04 Double machines with straight needles
- 52a-14/05 Thread inserters and holders
- 52a-14/06 Welt guides
- 52a-14/07 Work holders and supports
- 52a-14/08 Last stitch operations
- 52a-15/01 Sewing machines with material carrier arms
- 52a-15/02 Cylinder sewing machines
- 52a-15/16 Thread waxing devices

Buttonhole sewing machines

- 52a-17 in which the needle is moved transversely
- 52a-18/00 with curved needle, Singer system
- 52a-18/02 with curved needle, Reece system
- 52a-18/03 with curved needle, Mesne system
- 52a-18/04 with curved needle, Union system
- 52a-18/05 with curved needle, United Shoe system
- 52a-18/06 Other systems
- 52a-18/07 in which the material fastener is moved transversely

- 52a-18/08 Buttonhole sewing devices
- 52a-19 Devices for clamping the buttonhole
- 52a-20 Buttonhole cutting devices
- 52a-21 Sewing machines for straw hats
- 52a-22 Sewing machines for hat trimmings
- 52a-23/01 Sewing machines for sewing on beads
- 52a-23/02 Sewing machines for sewing on hooks and eyes
- 52a-23/03 Sewing machines for sewing on spangles
- 52a-24/01 Sewing machines for sewing on eye shank buttons
- 52a-24/02 Devices for sewing on eye shank buttons
- 52a-25/01 Sewing machines for sewing on perforated buttons
- 52a-25/02 Devices for sewing on perforated buttons
- 52a-25/03 Button attaching machines
- 52a-26/01 Sewing machines for straw mats
- 52a-26/02 Sewing machines for bottle covers
- 52a-27 Sewing machines for sewing corset bones
- 52a-28 Sewing machines with rotary needles
- 52a-29 Sewing machines for quilts and mattresses
- 52a-30/01 Machines and devices for darning: sewing process (25a-30/01; 86b)
- 52a-30/02 Machines and devices for darning with thread distribution device (86b-1)
- 52a-30/03 Darning lasts
- 52a-30/04 Darning rings and holders
- 52a-31 Carpet sewing machines
- 52a-32 Sewing machines for stitching work together (52 a-61)

Devices for manipulating the thread on sewing machines

- 52a-33/01 Tension devices for the needle thread
- 52a-33/02 Tension devices to be regulated by hand
- 52a-33/03 Automatic tension devices
- 52a-33/04 Tension measuring devices
- 52a-34 Tension devices for the underthread
- 52a-35/01 Thread feeders
- 52a-35/02 Cam thread feeders
- 52a-35/03 Link thread feeders
- 52a-35/04 Thread feeders for leather sewing machines
- 52a-35/05 Rotary thread feeders
- 52a-35/06 Hook thread feeders
- 52a-36/01 Bobbin winders
- 52a-36/02 Automatic delivery devices
- 52a-37/01 Yarn spool holders on sewing machines
- 52a-37/02 Traverse winder holders
- 52a-38/01 Thread cutting devices on sewing machines
- 52a-38/02 Automatic thread cutting devices

52a-38/03 Devices on yarn spools, thimbles, etc.
52a-38/04 Thread take-up levers

Threading devices

52a-39/01 with funnel
52a-39/02 with hook
52a-39/03 with notched needle
52a-39/04 with wire loop
52a-39/05 with optical aids

52a-40/01 Sewing needles (manufacture 7e-1 – 7e-6)
52a-40/02 Needles with slit eyes
52a-40/03 Curved needles
52a-40/04 Flexible needles
52a-40/05 Hollow needles
52a-40/06 Sewing awls
52a-40/07 Needle-bar drive
52a-40/08 Drives for curved needles
52a-40/09 Needle bars
52a-40/10 Needle clamps
52a-40/11 Needle guides
52a-40/12 Needle guards (finger protection against needle 52a-57/08)
52a-40/13 Setters

Shuttles and hooks

52a-41 Long shuttles
52a-42 Hook shuttles
52a-43/01 Hooks for sewing machines
52a-43/02 Chain-stitch hooks, rotary and swinging
52a-43/03 Double lock stitch loop hooks
52a-43/04 Idler hooks
52a-43/05 Double lock stitch hook with several points
52a-43/06 Hook drive for chain and lock stitch; drive with drag crank
52a-43/07 Loop holders
52a-43/08 Loop extenders

52a-44/01 Bobbin casings
52a-44/02 Bobbin casing protection
52a-44/03 Eyelets
52a-44/04 Bobbin ejection devices
52a-44/05 Bobbins

Devices for manipulating the material on sewing machines

52a-45/01 Four-motion feeders
52a-45/02 Needle feed
52a-45/03 Feeding devices on leather sewing machines
52a-46/01 Rotary feeders
52a-46/02 Devices for the supply and removal of goods
52a-47/01 Stitch adjustment devices
52a-47/02 Differential feeding mechanism
52a-48/01 Material presser bars
52a-48/02 Material presser bars with divided feet
52a-48/03 Material presser bars with rolling feet
52a-49/01 Controlled material presser bars
52a-49/02 Controlled material presser bars for leather sewing machines

52a-50/01	Upper material presser bars
52a-50/02	Upper and lower material presser bars
52a-51/01	Material cutting devices
52a-51/02	Leather slitting devices
52a-52/01	Hemming devices
52a-52/02	Devices for sewing on ribbon and edging
52a-52/03	Edge guides
52a-52/04	Hemming devices with moving elements
52a-52/05	Tucking devices
52a-52/06	Marking devices
52a-53	Pleating and ruffling devices
52a-54	Devices for colour marking cutting points
	Sewing machine drives (47)
52a-55/01	Hand drives
52a-55/02	Treadle drives, overcoming of dead-centre, prevention of reversal
52a-55/03	Mechanical drives
52a-55/04	Electrical drives with or without transmission, built-in motors; solenoid motors (21d1; 21d2)
52a-55/05	Starters and switches (21c)
52a-55/06	Collective drives
52a-55/07	Internal drives, inner belt and chain drives
52a-56/01	Clutches and brakes, dependent on the structure of sewing machines
52a-56/02	Hand wheel couplings
52a-56/03	Other couplings
52a-56/04	Devices for stopping in certain positions or after a given number of stitches
52a-56/05	Thread guides
52a-57/01	Sewing machine casings, column sewing machines
52a-57/02	Sewing machine stands and tables
52a-57/03	Fold-away heads
52a-57/04	Slides and stitch plates
52a-57/05	Lubrication
52a-57/06	Illumination, as determined by the structure of sewing machine
52a-57/07	Material gatherer
52a-57/08	Protective devices
52a-57/09	Sewing machine cases
52a-57/10	Sound dampers
52a-57/11	Chairs and other accessories
52a-58/01	Hand-operated sewing machines
52a-58/02	Smoothing devices (67a)
52a-58/03	Ventilators (27c)
52a-58/04	Separating devices
52a-58/05	Material holders
52a-58/06	Auxiliary attachments
52a-58/07	Sewing attachments and yarn spool holders such as frames, cabinets, boxes, revolving plates; skein holders
52a-58/08	Needle boxes, needle cushions
52a-58/09	Thimbles
52a-58/10	Counters (42p-9/02)
52a-59/01	Devices for embroidering on sewing machines, as determined by the structure of the sewing machine
52a-59/02	Pantographs

52a-59/03 Folding and coverable material feeders
 52a-59/04 Embroidery frames
 52a-59/05 Embroidery [presser] feet
 52a-60/01 Embroidery sewing machines
 52a-60/02 Crank sewing machines
 52a-60/03 Sewing machines for embroidering a fabric with thread loops

Special sewing machines (52a-21 – 52a-32)

52a-61/01 Sack sewing machines
 52a-61/02 Sack closing machines (81a)
 52a-61/03 Tube sewing machines
 52a-61/04 Sewing machines for sewing cotton buttons
 52a-61/05 Sewing machines for incandescent mantles
 52a-61/06 Sewing machines for brushes and brooms
 52a-61/07 Machines for sewing on labels and the like
 52a-61/08 Flat sewing through machines
 52a-61/20 Machines and devices for various sewing purposes

52b Embroidery (tapestry 25d; embroidery by sewing or by means of the sewing machine 52a)

Embroidering machines

52b-1 Single-needle embroidering machines
 52b-2 Multiple-needle embroidering machines with two-pointed needles
 52b-3 Multiple-needle embroidering machines in general, shuttle embroidering machines

Individual components and devices in embroidering machines

52b-4/01 Embroidery frame guides, suspending and balancing
 52b-4/03 Embroidery frame drive
 52b-4/05 Embroidery frames, grids
 52b-4/06 Fabric stretching devices in grids, cloth rollers
 52b-4/10 Pantographs and pattern boards
 52b-4/30 Automatic embroidering machines, automatic parts
 52b-4/50 Card marking devices for embroidery
 52b-5 Thread pattern repeat and exchange for embroidering machines
 52b-6 Boring and jogging devices for embroidering machines
 52b-7/01 Buttonhole devices
 52b-7/02 Embroidery with ornamental threads or the like, multicolour embroidery
 52b-7/03 Stitching of cards, ribbons or the like
 52b-7/04 Fabric presser bars
 52b-8/01 Thread tension devices for embroidering machines
 52b-8/03 Thread guides for embroidery machines
 52b-9/01 Needle fastening and needle inserting devices
 52b-9/02 Embroidery machine needles

Miscellaneous features in embroidering

52b-10/01 Miscellaneous embroideries, embroidery foundations, embroidery insertions
 52b-10/02 Etched embroidery
 52b-10/03 Perforation devices
 52b-11/01 Devices for the embroidery of foundation materials with thread loops
 52b-11/02 Special stitches, beaded embroideries
 52b-11/03 Hand embroidery devices
 52b-12/01 Devices for threading and fastening the needle thread
 52b-12/02 Shuttle filling and threading machines
 52b-13/01 Hand embroidery frames

- 52b-13/02 Circular hand embroidery frames
- 52b-13/03 Needle holders, thread holders and other hand-embroidery devices
- 52b-13/04 Embroidery patterns
- 52b-14/01 Devices for the transfer of colour and for wetting threads
- 52b-14/02 Manufacture of cotton buttons on embroidery machines
- 52b-14/03 Cutting of broken threads on embroidery machines (cutting of broken threads 8b-32)
- 52b-14/04 Separating and burning off parts of the basic fabric on embroidery machines (cutting and cutting out of laces and embroideries 8f-9/02)
- 52b-14/05 Measuring and counting devices, thread tension meters, devices for ruling and straightening for embroidery
- 52b-14/06 Devices for maintaining, cleaning, lubricating, etc. embroidery machines; protective devices for embroidery machines