

1. This is the general heading for hand and machine sewing, *ie* fastening materials by passing thread repeatedly through holes made with a threaded needle or with an awl or other piercing tool
It is also the general heading for tufting which is a similar operation in which thread is passed by a series of needles through a single sheet of advancing material to make a pile fabric, the thread usually forming a succession of pile loops which may be cut on formation
Certain other related subjects are also dealt with in this heading (*See* paragraph 2.3 below)
2. Explanation of heading subject matter and relationships with other headings
- 2.1 Classifying Schedule 1: Machine sewing
This Schedule is concerned with all aspects of machine sewing in which a threaded needle is repeatedly driven through advancing material. Other seaming operations are in general subject matter for heading B5K Joining; binding; folding edges. Also excluded are:
. stapling and discontinuous wire-stitching not involving the use of sewing-needles—B4C, Impelling-tools &
. embossing fabric to imitate sewing and embroidery—B6J, Engraving, etching and embossing
Other exclusions and affinities are indicated in the body of the Schedule
Stitched seams *per se* and hand sewing are dealt with in Classifying Schedule 3
Five Indexing Schedules are provided for use with Classifying Schedule 1
- 2.2 Classifying Schedule 2: Tufting machines
This Schedule is concerned with tufting machines, *ie* machines in which a series of threaded needles repeatedly pass through a single sheet of advancing material with the object of making a pile fabric, the thread usually forming a succession of pile loops which may be cut on formation. Pile fabrics *per se* and machines for and methods of manufacturing pile fabrics other than in this manner are dealt with principally in heading D1K, Fabrics &c though there is some affinity with matter in headings B2E, Coated products and B5N, Laminated products
Since tufting machines have some affinity with multi-needle sewing machines, search in Classifying Schedule 1 may have to be considered for inventions of broad scope relating for example to thread supply, needle or looper operation or needles or loopers *per se*
A Single Indexing Schedule is provided for use with Classifying Schedule 2
- 2.3 Classifying Schedule 3: Other related subjects
Classified here are hand sewing accessories, stitched seams *per se*, embroidery and other ornamenting sewing machines, embroidery and other ornamental effects *per se*, linking machines, stitch markers, apparatus for setting, attaching and removing buttons and other dress fastenings, book sewing machines and hand tufting tools
- 2.4 Note
The exclusion references listed in this heading are not exhaustive. Reference should be made to the appropriate general heading/s for processes, materials, elements or devices which may be more widely applicable than can appropriately be classified in this heading
- 3 Relationship with the Universal Indexing Schedules (Heading U1S)
The main use of U1S in relation to this heading is to record the nature of special items sewn
- 4 Operative date for Key entries
The operative dates of the terms in this heading are:
1. for all classifying terms, and those indexing terms annotated by the marginal code, that of Edition F
2. for all other indexing terms, earlier than that of Edition A

Classifying Schedule 1: Machine sewing

*Note Combination terms GCD, GBF, GBG, GWK are assigned for associations between individually classifiable features. When an individual feature of the association is itself of interest, the appropriate term therefor is also assigned

- GG associations of two or more sewing machines; association of sewing machine(s) with apparatus performing functionally different operation, *eg* stacking; carousel machines (Note: Machines with several needles at a single head are regarded as single machines)
- GF overall organisation of sewing machines
 . book sewing machines; linking machines—*See* Classifying Schedule 3, terms GN, GL
- control and command—
 . electric control systems of general interest— *See* G3N, Automatic electric control systems; G3R, Electric retroactive control; G4N, Supervisory, alarm and safety systems (for alarm systems); H2J, Electric motor operating arrangements
 . responding to sensed or monitored condition; condition sensed, monitored or affected being—
- GCA . . main drive, *including* stopping thereof, bringing parts *eg* needles to rest at predetermined position
- GCB . . work; workfeed *including* automatic orientation of work in accordance with edge contour
- GCC . . thread, threadfeed
- * GCD . . other specified condition; combinations of subjects GCA-GCC
 . producing a predetermined stitch pattern by pattern selection or programming, *eg* by controlling needle swing or position or work feed—
- GCE . . by cam(s) and follower(s)
- GCF . . by other means
- basic operations—
 . construction of elements *per se*, *See* terms GD— *below*
 . driving or moving elements—
 . . drive merely to upper or lower shafts—*See* term GBM *below*
 . . bringing parts, *eg* needles, to rest at predetermined position— *See* term GCA *above*
 . . needles—
 . . . reciprocating—
 variable
- GBA other
- GBB other
 swinging, *ie* for zig-zag machines
 *See also* Indexing Schedule 4 for terms to be assigned with Classifying terms GBC-GBF *below*
 pattern selection or programming—*See* terms GCE and GCF *above*
- GBC actuation
 motion transmission—
 variable
- GBD other
- * GBF combinations of subjects GBC-GBE *above*
- * GBG combinations of subjects GBA and/or GBB with any of GBC-GBF *above*
 *See also* Indexing Schedule 4
- GBH . . loopers, hooks, shuttles
- GBK . . driving two or more elements in related or time manner
- GBL . . driving or moving elements, *not otherwise provided for*
 driving thread cutters, work cutters, bobbin winders—*See* terms GAA, GAB, GAF *below*
 driving work feed device for feeding work through sewing head—*See* terms GW—*below*
- GBM . . primary or main drive
 construction of motors— *See* H2A, Dynamo-electric machines &c
- GBN . . thread supplying and feeding to needles or loopers, *including* tensioning up, take up and thread engaging *not otherwise provided for* (*See* Indexing Schedule 5)
 . . *See also* Indexing Schedule 5
 . . for similar subjects in tufting machines—*See* Classifying Schedule 2, terms GTF, GTG
 . . for similar subjects in other textile machines—*See* other D1—headings as appropriate
 . . thread tension indicators— *See* G1W, Weighing; dynamometers
 . . work feeding, guiding and holding—
 work feeding of general interest; ordering, *eg* stacking sheet material; feeding work to and from sewing machines *other than* during stitching— *See* B8R, Handling thin material
 turning sewn articles inside out— *See* D1X, Miscellaneous textiles &c
- GWA . . supporting
- GWB . . clamping
 presser feet— *See* term GDA *below*
- GWC . . guiding including guides *per se*
 folding guides— *See* term GDK *below*
 presser feet— *See* term GDA *below*

Classifying Schedule 1: Machine sewing—cont

- GWD . . . tensioning and braking during sewing
- GWE . . . producing predetermined seam profiles (*other than* single straight or essentially straight seams) by relative movement of work and sewing tools
 . . . *See also* Indexing Schedule 2
- GWF . . . feeding devices engaging underside of work, *eg* dogs; and drive therefor
 . . . *See also* Indexing Schedule 2
 . . . feed dogs *per se*—*See* term GDJ below
- GWJ . . . other unit work handling subjects
 . . . *See also* Indexing Schedule 2
- * GWK . . . combinations of subjects GWA-GWJ above
 . . . *See also* Indexing Schedules 2 and 3
- GBX . . . basic operations *not otherwise provided for*
- elements—
- GDA . . . presser devices and feet, *including* mounting and attaching
 . . . presser devices specially adapted for guiding work, *eg* slide fasteners— *See* term GWC above
- GDB . . . loopers, hooks, bobbins and shuttles, *including* mounting and attaching
 . . . bobbin, spool and reel holders and cases; reels and other cases for lengths of thread— *See* B8M, Reels &c
- GDC . . . frames and stands, *including* mounting machines therein/on
 . . . cabinets, covers, casings— *See* A4B, Cabinets, shelves, runners &c
 . . . converting stands into tables, extension leaves, table top fittings of general interest—*See* A4L, Furniture &c
 . . . bench constructions of general interest— *See* B4X, Work benches, miscellaneous tools &c
 . . . needles—
 . . . threaders—*See* Classifying Schedule 3, term GHC
 . . . for felting fabrics— *See* DIR, Non-woven fibrous materials &c
- GDE . . . mounting needles
- GDF . . . needles with threads or sutures
- GDG . . . other
- GDH . . . guards (N.B. Affinity exists with heading F2J, Machinery guards &c)
- GDJ . . . work feeding devices *per se*, *eg* feed-dogs
 . . . of general interest— *See* B8R, Handling thin material
- GDK . . . folding or corrugating devices &c (N.B. Affinity exists with headings B5K, Joining; binding; folding edges and B8R, Handling thin material)
 . . . pleating, gathering appliances— *See* D1S, Finishing fabrics &c
- GDL . . . throat plates
- GDX . . . elements not otherwise provided for
 . . . thread guides and tensioners—*See* term GBN above
 . . . work guides—*See* term GWC above
- ancillary subjects—
- GAA . . . cutting thread/removing waste thread, *including* drive therefor
 . . . seam rippers or unpickers— *See* B4B, Cutting &c
 . . . cutting/removing float threads on fabrics— *See* D1S, Finishing fabrics &c
- GAB . . . cutting work *including* drive therefor
 . . . awls &c not adapted to insert threads; perforating and punching machines for leather, fabrics &c— *See* B4B, Cutting &c
 . . . supplying or feeding items *eg* buttons, tapes to sewing station to be sewn on
 . . . main work feed and guides *per se*—*See* terms GW—above
 . . . folding—*See* term GDK below
- GAC . . . buttons and other dress fastenings (N.B. Affinity exists with heading A3H, Dress fastenings, jewellery &c)
- GAD . . . other items
- GAE . . . illuminating work
 . . . illuminating article dispensers of general interest— *See* B8U, Dispensing discrete articles
- GAF . . . bobbin winding *including* drive specifically therefor
 . . . in machines *other than* sewing machines— *See* D1J, Winding and unwinding
- GAG . . . lubricating or cooling
- GAH . . . moving machine or head, *ie* in travelling machines
- GAX . . . ancillary subjects *not otherwise provided for*
 . . . needle threaders— *See* Classifying Schedule 3, term GHC
- GMA . . . sewing methods not dependent on the use of particular apparatus (N.B. this term is residual)
- GMB . . . methods of assembly or manufacture not of interest to other headings (N.B. Affinity exists with heading B3A, Multi-operation metal article manufacture)

Indexing Schedules for use with Classifying Schedule 1

Note Prior to the operative date of Edition F, the indexing terms not annotated by a marginal code were only assigned to those features with which novelty was associated. It is therefore not possible to use a combination of these indexing terms for searching subject matter published prior to the operative date of Edition F

Indexing Schedule 1: terms from this Schedule are assigned with any term from Classifying Schedule 1

- f G300 application of pneumatic and suction devices
- kinds or types of sewing machines—
 . blind-stitching and like machines—
 G1J3A . . bending work periodically
 . . other than bending work periodically—
 G1J2B . . . with curve of work or needle path transverse to line of feed
 G1J2A . . . other than with curve of work or needle path transverse to line of feed
 G1B . boot-sole stitching and lasting or stitching and assembling without lasting
 . buttonhole and eyelet-hole sewing-machines (*including* automatic machines for making buttonhole barring and like groups of stitches)—
 G1C1 . . barring and like groups of stitches, and piped buttonholes
 G1C2 . . other than barring and like groups of stitches and piped buttonholes
 G1G20 . corner-sewing (connecting edges of leather and like material at an angle)
 G1F3 . fringing-machines
 G1F4 . hem-stitching machines
 G1G13 . inserting lengths of thread, tape or the like in articles or sheets at isolated points
 G1J3B . machines designed for smocking and other special operations on bent work
 G1K . machines with frames or mechanism bridging work (*other than* embroidery machines and tufting-machines)
 . multiple-needle machines (*other than* book-signature and pamphlet sewing, embroidery, hem-stitching, jacquard-card-connecting and universal-feed machines)—
 G1F7A . . making stitches involving two or more similar needles on same side of work
 G1F7B . . sewing separately-formed seams simultaneously
 G1F2 . overhead-sewing machines, scale-pan type
 G1H . portable machines *including* toy machines
 G1G10 . ruffling-machines
 . running-stitch machines (*other than* embroidery machines)—
 G1D3 . . pleating or corrugating work
 G1D2 . . revolving-needle
 G1D1 . . to-and-fro or double-pointed needle
 G1DX . . other
 G1E2 . universal-feed machines (Cornely and like types)

Indexing Schedule 2: terms from this Schedule are only assigned with classifying terms GWE, GWF, GWJ or GWK

- feeding work (*including* moving all stitch-forming apparatus relatively to work) during stitching (*other than* feeds peculiar to well-defined kinds or types of machines)—
 G2C1 . by awls
 G2C7 . by clamps, spiked plates, and other devices relatively to which work is fixed (*including* by bodily movement of feed mechanism)
 G2C8 . by co-operating jaws
 . by dogs (*other than* by presser-feet and other devices engaging upper surface of work)—
 G2C2B . . dogs co-operating with other feeds
 G2C2A . . dogs or feeding-surfaces
 G2C2D . . feed-bar mechanisms (*other than* for special feeding operations)
 . . special feeding operations—
 G2C2C1 . . . circular (in plane of work)
 G2C2C2 . . . continuously-reversing and intermittent for producing special stitches
 G2C2C3 . . . duplex or differential (stretching and crowding)
 G2C2C4 . . . periodically varying and reversing
 G2C2C5 . . . universal and angular
 G2C2C6 . . . zigzag
 G2C2CX . . . other special feeding operations
 . . feed, reversing and regulating—
 G2C2E1 . . . in feed-bar mechanism
 . . . in feed-shaft actuating-mechanism—
 G2C2E2A by variable eccentric
 G2C2E2X other
 G2C2EX . . . other
 G2C9 . by movement of all stitch-forming apparatus
 G2C4 . by needles (*including* movement of needle with work while in the work)
 G2C5 . by presser-feet and other devices engaging upper surface of work

Indexing Schedule 2—cont

- . by wheels, chains, and other rotary devices—
- G2C6A . . by chains and other flexible members
- G2C6C . . by periphery of wheels, rollers and other rotary members
- G2C6B . . by sides of revolving discs
- G2C10 . feeding long lengths of fabric
- G2C16B . special feeding operations
 - . . by dogs— *See* terms G2C2- *above*
- . feed, reversing and regulating—
 - . . in feed by dogs— *See* terms G2C2- *above*
- G2C15A . . by variable eccentric
- G2C15X . . other

Indexing Schedule 3: terms from this Schedule are only assigned with classifying term GWK

- f G100 supporting
- f G105 clamping
- f G101 guiding, *including* guides *per se*
- f G102 tensioning and braking
- f G103 feeding
- f G104 other unit work handling operation

Indexing Schedule 4: terms from this schedule are only assigned with classifying terms GBC — GBG

- needles, shifting laterally, (*including* shifting needle-point and shifting loop-takers and throat-plates laterally in unison with needles)—
- G2F2A1 . associated with feed control for varying stitch length and direction
 - . for purposes other than mere ornamental stitching—
 - . . buttonhole-stitching
- G2F2A2B . . attaching buttons
- G2F2A2A . . hem-stitching
- G2F2A2C . . other purposes
- G2F2A2X . . loop-takers and throat-plates, shifting laterally in unison with needle
- G2F2A7 . machines which stop after a predetermined cycle of operation
- G2F2A15 . manual control devices
- G2F2A8 . motion-transmitting linkages, adjustable for varying stitch width and position
- G2F2A9 . in multiple-needle machines
- G2F2A12 . needle arranged eccentrically in oscillating needle-bar
- G2F2A11C . needle-bars, mounting for lateral movement—
 - . . needle bar carried in swinging frame or guide pivotally suspended at its upper end
 - . . parallel movement—
 - . . . non-pivotal movement
 - . . . pivotal movement
 - . . other mounting and movement
- G2F2A10A . needle-holders moving relatively to needle-bar—
 - . . other than pivotally
- G2F2A10B . . pivotally
- G2F2A10X . needle point deflected by bending needle
 - . producing or automatically controlling movement by—
 - . . cams—
 - . . . automatic control by cams
 - . . . multiple cams, selectively engageable
 - . . . producing movement by cams—
 - cam embraced by forked lever
 - grooved cams
 - other cams
 - . . eccentrics
 - . . other means
 - . starting and stopping needle shift mechanism—
 - . . automatically
 - . . manually
- G2F2A3 . . . automatic control by cams
- G2F2A5 . . . multiple cams, selectively engageable
 - . . . producing movement by cams—
 - cam embraced by forked lever
 - grooved cams
 - other cams
- G2F2A4A . . eccentrics
- G2F2A4B . . other means
- G2F2A4X . . other means
- G2F2A6A . starting and stopping needle shift mechanism—
 - . . automatically
 - . . manually
- G2F2A6X . movement in two directions
- G2F2A13A . . automatically
- G2F2A13B . . manually
- G2F2A14 . movement in two directions

Indexing Schedule 5: terms from this Schedule are only assigned with classifying term GBN

- needle-thread take-ups—
 . rotary—
 G2P5A1 . . cam type
 G2P5A3 . . means for preventing thread-winding
 G2P5A2 . . pin type
 G2P5AX . . other rotary take-ups
 . other than rotary—
 G2P5B . . on needle bar
 G2P5X . . other non-rotary take-ups
- controlling threads otherwise than in stitch-forming (*other than* thread-cutters and thread-end holders)—
 G2N1A . pulling off
 . tension, releasing and reducing—
 G2N1B1 . . in conjunction with lifting of presser-foot and opening of work-clamp
 G2N1BX . . other
 G2N1C . thread locks and nippers
 G2N1X . other
- thread-tensioning devices—
 G2N2B . automatic maintenance of constant tension, or variation of tension with speed
 . kinds—
 G2N2A1 . . braked wheel
 G2N2A2 . . disc
 G2N2AX . . other
 G2N2C . multi-thread

Classifying Schedule 2: Tufting machines

- GTA tufting machines *characterised by* the use of pneumatic means for supplying and/or inserting thread
 other tufting machines; tufting machine subjects of general interest—
 GTB . overall organisation
 GTC . control and command, *ie* responding to sensed or monitored condition or programmed control
 . . electric control systems of general interest— *See* G3N, Automatic electric control systems; G3R, Electric
 retroactive control; G4N, Supervisory, alarm and safety systems (for alarm systems); H2J, Electric
 motor operating arrangements
 . unit subjects
 GTD . . feeding and holding base material
 . . . of general interest— *See* B8R, Handling thin material
 GTE . . relatively moving base material and tufting tools laterally
 . . thread supplying and feeding to needles *including* tensioning
 . . . for similar subjects in sewing machines—*See* Classifying Schedule 1 term GBN
 . . . for similar subjects in other textile machines—*See* other D1-headings as appropriate
 . . . pneumatic thread feed— *See* term GTA *above*
 . . . variable
 GTF . . . other
 GTG . . . other
 GTH . . mounting and operating needles and other loop inserters
 GTJ . . needles *per se*
 GTK . . mounting and operating loopers and other loop catches
 GTL . . loopers *per se*
 GTM . . thread cutting
 GTN . . unit subjects *not otherwise provided for eg*, looper gates

Indexing Schedule 6: terms from this Schedule are only assigned with terms from Classifying Schedule 2

- f G201 producing pattern by
 f G202 . selectively cutting loops
 f G203 . varying length of loops or tufts
 f G204 . using materials of different nature or colour
 . other means

Classifying Schedule 3: Other related subjects

- hand sewing accessories
 . needles— *See* terms GDF, GDG in Classifying Schedule 1
 . forms of button holes— *See* A3V, Wearing apparel &c
 . seam rippers or unpickers; awls &c not adapted to insert threads— *See* B4B, Cutting &c
 . hand picking-up tools for sewing and embroidery—*See* B4W, Gripping-tools &c
 . crochet hooks— *See* D1C, Knitting machines &c
 . thimbles and other finger or hand shields
 . work holders
 . needle threaders *including* needle threaders *in situ* in sewing machines
 . other accessories
- GHA
 GHB
 GHC
 GHX
- GS
 stitched seams *per se*
 . ornamenting—*See* term GE *below*
 . arrangements of seams in garments or footwear— *See* A3B, Boots and shoes; A3V, Wearing apparel &c
 . unstitched seams of general interest— *See* B5K, Joining; binding; folding edges
 . bookbinding seams—*See* B6A, Stationery, bookbinding &c
- GE
 embroidery and other ornamenting sewing machines; embroidery and other ornamental effects *per se*
 . imitation embroidery— *See* D1K, Fabrics &c
- GL
 linking machines, *ie* wherein knitted loops on pins are sewn *eg* to close a sock toe, *including* transferring fabric thereto
 . taking fabric off knitting machines— *See* D1C, Knitting machines &c
- GJ
 stitch markers
- GK
 apparatus for setting, attaching and removing buttons and other dress fastenings not of interest to any other heading
 . button supply &c—*See* term GAC in Classifying Schedule 1
 . button clamps *per se*—*See* term GWB in Classifying Schedule 1
 . impelling or gripping tools— *See* B4C, Impelling-tools &c; B4W, Gripping-tools &c
- GN
 book sewing machines
 . subjects of general interest to machine sewing—*See* Classifying Schedule 1
- GP
 hand tufting tools *including* rug making tools