

CPC**COOPERATIVE PATENT CLASSIFICATION****D05C****EMBROIDERING; TUFTING** ([making non-woven fabrics D04H](#) ; [sewing D05B](#))**D05C 1/00****Apparatus, devices, or tools for hand embroidering**[D05C 1/02](#)

- . Work frames

[D05C 1/04](#)

- . . circular

[D05C 1/06](#)

- . Needles specially adapted for hand embroidering ([sewing needles D05B 85/00](#)) ;
Holders for needles or threads

[D05C 1/065](#)

- . . {[Holders for needles or threads](#) }

[D05C 1/08](#)

- . Patterns for hand embroidering; Manufacture thereof

Guidance heading: **Embroidering machines** ([{embroidering attachments for sewing machines D05B 3/243}](#); [programme-controlled sewing machines with embroidering capability D05B 19/00, D05B 21/00](#))

D05C 3/00**General types of embroidering machines**[D05C 3/02](#)

- . with vertical needles

[D05C 3/04](#)

- . with horizontal needles

D05C 5/00**Embroidering machines with arrangements for automatic control of a series of individual steps**[D05C 5/02](#)

- . by electrical or magnetic control devices

[D05C 5/04](#)

- . by input of recorded information, e.g. on perforated tape

[D05C 5/06](#)

- . . with means for recording the information

D05C 7/00**Special-purpose or automatic embroidering machines**[D05C 7/02](#)

- . with accessories for peculiar kinds of embroidery

[D05C 7/04](#)

- . for boring or jogging

[D05C 7/06](#)

- . for embroidering festoons

[D05C 7/08](#)

- . for attaching cords, tapes, bands, or the like

[D05C 7/10](#)

- . for separating and burning-off parts of the base fabric ([making patterns or designs on fabrics by singeing or etching D06C 23/02](#))

[D05C 7/12](#)

- . for making cotton buttons

D05C 9/00**Appliances for holding or feeding the base fabric in embroidering machines**

- D05C 9/02 . in machines with vertical needles
- D05C 9/04 . . Work holders, e.g. frames
- D05C 9/06 . . . Feeding arrangements therefor, e.g. influenced by patterns, operated by pantographs
- D05C 9/08 . in machines with horizontal needles
- D05C 9/10 . . Work holders or carriers
- D05C 9/12 . . . Holding or stretching arrangements for the base fabric in embroidery work holders
- D05C 9/14 . . . Suspension or balancing arrangements therefor
- D05C 9/16 . . . Feeding arrangements therefor
- D05C 9/18 . Movement of the base fabric in one of the two directions controlled by embroidering needles
- D05C 9/20 . Movement of the base fabric controlled by the presser feet; Driving arrangements therefor
- D05C 9/22 . Adjusting or registering devices for the base fabric, e.g. for alignment with respect to the needles

D05C 11/00**Devices for guiding, feeding, handling, or treating the threads in embroidering machines; Machine needles; Operating or control mechanisms therefor**

- D05C 11/02 . Machine needles
- D05C 11/04 . . Arrangements for fastening or inserting in bars or carriers
- D05C 11/06 . . Needle-driving or control mechanisms
- D05C 11/08 . Thread-tensioning arrangements { (inside the shuttle [D05C 11/18](#)) }
- D05C 11/10 . . Guides, e.g. resilient
- D05C 11/12 . . Rollers
- D05C 11/14 . . Stop motions responsive to thread tension or breakage
- D05C 11/16 . Arrangements for repeating thread patterns or for changing threads
- D05C 11/18 . Shuttles; {Shuttle holders; Shuttle driving arrangements }
- D05C 11/20 . Arrangements for cutting the needle or lower threads
- D05C 11/22 . Arrangements for cutting-out broken threads
- D05C 11/24 . incorporating devices for dyeing or impregnating the threads

D05C 13/00**Auxiliary devices incorporated in embroidering machines, not otherwise provided for; Ancillary apparatus for use with embroidering machines**

- D05C 13/02 . Counting, measuring, indicating, warning, or safety devices
- D05C 13/04 . Lubricating devices
- D05C 13/06 . Apparatus for filling or threading shuttles

- D05C 15/00** **Making pile fabrics or articles having similar surface features by inserting loops into a base material** (layered products [B32B](#) ; non-woven pile fabrics [D04H 11/00](#))

- D05C 15/02 . Rooting of hair in doll heads or wigs (wigs [A41G 3/00](#); hair or wigs for doll heads [A63H 3/44](#))

- D05C 15/04 . Tufting
- D05C 15/06 . . Hand tufting needles {Hand-held tufting apparatus }
- D05C 15/08 . . Tufting machines { ([D05C 15/06](#) takes precedence) }
- D05C 15/10 . . . operating with a plurality of needles, e.g. in one row
- D05C 15/12 in more than one row
- D05C 15/14 . . . Arrangements or devices for holding or feeding the base material ([D05C 15/26](#) takes precedence)
- D05C 15/145 {Needle plates }
- D05C 15/16 . . . Arrangements or devices for manipulating threads ([D05C 15/26](#) takes precedence)
- D05C 15/18 Thread feeding or tensioning arrangements
- D05C 15/20 Arrangements or devices, e.g. needles, for inserting loops; Driving mechanisms therefor
- D05C 15/22 Loop-catching arrangements, e.g. loopers; Driving mechanisms therefor
- D05C 15/24 Loop cutters; Driving mechanisms therefor
- D05C 15/26 . . . with provision for producing patterns
- D05C 15/28 by moving the base material laterally
- D05C 15/30 by moving the tufting tools laterally
- D05C 15/32 by altering the loop length
- D05C 15/34 by inserting loops of different nature or colour
- D05C 15/36 by selective cutting of loops

- D05C 15/38 . by passing thread material in zig-zag manner through spaced layers of base material and subsequently cutting along a central plane

- D05C 17/00** **Embroidered or tufted products; Base fabrics specially adapted for embroidered work; Inserts for producing surface irregularities in embroidered products** (layered products [B32B](#) ; non-woven pile fabrics [D04H 11/00](#))

- D05C 17/02 . Tufted products
- D05C 17/023 . . {characterised by the base fabric }
- D05C 17/026 . . {characterised by the tufted pile surface }