

**CPC****COOPERATIVE PATENT CLASSIFICATION****D05C****EMBROIDERING; TUFTING** (making non-woven fabrics [D04H](#) ; sewing [D05B](#) )**Guidance heading:****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 }