

**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

**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}