

SECTION D — TEXTILES; PAPER

D05 SEWING; EMBROIDERING; TUFTING

D05C EMBROIDERING (programme-controlled sewing machines with embroidering capability D05B 19/00, D05B 21/00); **TUFTING** (making non-woven fabrics D04H; sewing D05B)

Subclass index

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|---|--------------------|
| HAND EMBROIDERY..... | 1/00 |
| EMBROIDERING MACHINES..... | |
| General types of machines..... | 3/00 |
| Machines with automatic control or for special kinds of embroidery..... | 5/00, 7/00 |
| Details..... | 9/00, 11/00, 13/00 |
| Auxiliary devices..... | 13/00 |
| MAKING PILE FABRICS BY INSERTING LOOPS..... | 15/00 |
| EMBROIDERED OR TUFTED PRODUCTS..... | 17/00 |

- 1/00 Apparatus, devices, or tools for hand embroidering**
- 1/02 • Work frames
- 1/04 • • circular
- 1/06 • Needles specially adapted for hand embroidering (sewing needles D05B 85/00); Holders for needles or threads
- 1/08 • Patterns for hand embroidering; Manufacture thereof

- 9/10 • • Work holders or carriers
- 9/12 • • • Holding or stretching arrangements for the base fabric in embroidery work holders
- 9/14 • • • Suspension or balancing arrangements therefor
- 9/16 • • • Feeding arrangements therefor
- 9/18 • Movement of the base fabric in one of the two directions controlled by embroidering needles
- 9/20 • Movement of the base fabric controlled by the presser feet; Driving arrangements therefor
- 9/22 • Adjusting or registering devices for the base fabric, e.g. for alignment with respect to the needles

Embroidering machines

- 3/00 General types of embroidering machines**
- 3/02 • with vertical needles
- 3/04 • with horizontal needles
- 5/00 Embroidering machines with arrangements for automatic control of a series of individual steps**
- 5/02 • by electrical or magnetic control devices
- 5/04 • by input of recorded information, e.g. on perforated tape
- 5/06 • • with means for recording the information
- 7/00 Special-purpose or automatic embroidering machines**
- 7/02 • with accessories for peculiar kinds of embroidery
- 7/04 • for boring or jogging
- 7/06 • for embroidering festoons
- 7/08 • for attaching cords, tapes, bands, or the like
- 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)
- 7/12 • for making cotton buttons
- 9/00 Appliances for holding or feeding the base fabric in embroidering machines**
- 9/02 • in machines with vertical needles
- 9/04 • • Work holders, e.g. frames
- 9/06 • • • Feeding arrangements therefor, e.g. influenced by patterns, operated by pantographs
- 9/08 • in machines with horizontal needles

- 11/00 Devices for guiding, feeding, handling, or treating the threads in embroidering machines; Machine needles; Operating or control mechanisms therefor**
- 11/02 • Machine needles
- 11/04 • • Arrangements for fastening or inserting in bars or carriers
- 11/06 • • Needle-driving or control mechanisms
- 11/08 • Thread-tensioning arrangements
- 11/10 • • Guides, e.g. resilient
- 11/12 • • Rollers
- 11/14 • • Stop motions responsive to thread tension or breakage
- 11/16 • Arrangements for repeating thread patterns or for changing threads
- 11/18 • Shuttles
- 11/20 • Arrangements for cutting the needle or lower threads
- 11/22 • Arrangements for cutting-out broken threads
- 11/24 • incorporating devices for dyeing or impregnating the threads
- 13/00 Auxiliary devices incorporated in embroidering machines, not otherwise provided for; Ancillary apparatus for use with embroidering machines**
- 13/02 • Counting, measuring, indicating, warning, or safety devices
- 13/04 • Lubricating devices
- 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)

- 15/02 • Rooting of hair in doll heads or wigs (wigs A41G 3/00; hair or wigs for doll heads A63H 3/44)
- 15/04 • Tufting
- 15/06 • • Hand tufting needles
- 15/08 • • Tufting machines
- 15/10 • • • operating with a plurality of needles, e.g. in one row
- 15/12 • • • • in more than one row
- 15/14 • • • Arrangements or devices for holding or feeding the base material (D05C 15/26 takes precedence)
- 15/16 • • • Arrangements or devices for manipulating threads (D05C 15/26 takes precedence)
- 15/18 • • • • Thread feeding or tensioning arrangements
- 15/20 • • • • Arrangements or devices, e.g. needles, for inserting loops; Driving mechanisms therefor

- 15/22 • • • • Loop-catching arrangements, e.g. loopers; Driving mechanisms therefor
- 15/24 • • • • Loop cutters; Driving mechanisms therefor
- 15/26 • • • • with provision for producing patterns
- 15/28 • • • • by moving the base material laterally
- 15/30 • • • • by moving the tufting tools laterally
- 15/32 • • • • by altering the loop length
- 15/34 • • • • by inserting loops of different nature or colour
- 15/36 • • • • by selective cutting of loops
- 15/38 • by passing thread material in zig-zag manner through spaced layers of base material and subsequently cutting along a central plane

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)

- 17/02 • Tufted products