

## 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

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
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Auxiliary devices.....	13/00
MAKING PILE FABRICS BY INSERTING LOOPS.....	15/00
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<b>1/00 Apparatus, devices, or tools for hand embroidering</b>	9/10	• • Work holders or carriers
1/02 • Work frames	9/12	• • • Holding or stretching arrangements for the base fabric in embroidery work holders
1/04 • • circular		
1/06 • Needles specially adapted for hand embroidering (sewing needles D05B 85/00); Holders for needles or threads	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
1/08 • Patterns for hand embroidering; Manufacture thereof	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
<b>Embroidering machines</b>		
<b>3/00 General types of embroidering machines</b>		
3/02 • with vertical needles	<b>11/00 Devices for guiding, feeding, handling, or treating the threads in embroidering machines; Machine needles; Operating or control mechanisms therefor</b>	
3/04 • with horizontal needles		
<b>5/00 Embroidering machines with arrangements for automatic control of a series of individual steps</b>	11/02	• Machine needles
5/02 • by electrical or magnetic control devices	11/04	• • Arrangements for fastening or inserting in bars or carriers
5/04 • by input of recorded information, e.g. on perforated tape	11/06	• • Needle-driving or control mechanisms
5/06 • • with means for recording the information	11/08	• Thread-tensioning arrangements
	11/10	• • Guides, e.g. resilient
	11/12	• • Rollers
<b>7/00 Special-purpose or automatic embroidering machines</b>	11/14	• • Stop motions responsive to thread tension or breakage
7/02 • with accessories for peculiar kinds of embroidery	11/16	• Arrangements for repeating thread patterns or for changing threads
7/04 • for boring or jogging	11/18	• Shuttles
7/06 • for embroidering festoons	11/20	• Arrangements for cutting the needle or lower threads
7/08 • for attaching cords, tapes, bands, or the like	11/22	• Arrangements for cutting-out broken threads
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)	11/24	• incorporating devices for dyeing or impregnating the threads
7/12 • for making cotton buttons		
<b>9/00 Appliances for holding or feeding the base fabric in embroidering machines</b>	<b>13/00 Auxiliary devices incorporated in embroidering machines, not otherwise provided for; Ancillary apparatus for use with embroidering machines</b>	
9/02 • in machines with vertical needles	13/02	• Counting, measuring, indicating, warning, or safety devices
9/04 • • Work holders, e.g. frames	13/04	• Lubricating devices
9/06 • • • Feeding arrangements therefor, e.g. influenced by patterns, operated by pantographs	13/06	• Apparatus for filling or threading shuttles
9/08 • in machines with horizontal needles		

## 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