D05C  EMBROIDERING; TUFTING (making non-woven fabrics D04H; sewing D05B)

WARNING
In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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
1/065  .  .  [Holders for needles or threads]
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)

3/00  General types of embroidery 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 embroidery 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
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

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 {inside the shuttle D05C 11/18}
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 {; Shuttle holders; Shuttle driving arrangements}
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

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 {Hand-held tufting apparatus}
Embroidering machines

15/08 . . Tufting machines ((D05C 15/06 takes precedence))
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)
15/145 . . . [Needle plates]
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
17/023 . . {characterised by the base fabric}
17/026 . . {characterised by the tufted pile surface}