

D05C

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

Definition statement

This subclass/group covers:

The embroidering and tufting machines, the embroidered or tufted products, and the base fabrics and inserts.

References relevant to classification in this subclass

This subclass/group does not cover:

Details of garments or of their making	A41D 27/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Sewing machines and manufacture of sewn products	F-Term 3B150
Embroidering and tufting	D05C 5/00 , D05C 17/00 FI classes 4L044
Sewing	D05B

Special rules of classification within this subclass

The classification in [D05C](#) is desirably complemented by a classification in the indexing scheme relating to sewing, embroidering and tufting [D05D](#)

selection of machines, accessories or parts of the same kind [D05D 2203/00](#)

interface between the operator and the machine [D05D 2205/00](#)

use of special elements [D05D 2207/00](#)

use of special materials [D05D 2209/00](#)

applied objects or articles [D05D 2303/00](#)

operations on the work before or after sewing [D05D 2305/00](#)

Disclosures of general nature which are both applicable to [D05B](#) and [D05C](#)

are preferably classified in [D05B](#) if the classification for the subject-matter concerned is more detailed (e.g. [D05B 85/00](#)).

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Embroidering	is forming decorative designs with hand or machine needleworks
Tufting	is projecting yarns drawn through a fabric or making up a fabric so as to produce a surface of raised loops or cut pile

D05C 1/00

Apparatus, devices, or tools for hand embroidering

References relevant to classification in this group

This subclass/group does not cover:

Decorating textiles by transferring fibres to the textile	D06Q 1/14
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Tools, implements, accessories, processes, apparatuses etc. for hand sewing	D05B 91/00 to D05B 97/00
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D05C 1/02

Work frames

Informative references

Attention is drawn to the following places, which may be of interest for search:

Hoops or frames for hand sewing	D05B 91/10
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D05C 1/065

[N: Holders for needles or threads]

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Holders	are means for supporting, storing and organizing needles and threads.
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D05C 3/00

General types of embroidering machines

Definition statement

This subclass/group covers:

Multi-needles and multi-head embroidery machines.

D05C 5/00

Embroidering machines with arrangements for automatic control of a series of individual steps

Definition statement

This subclass/group covers:

All kinds of embroidery machines with arrangements for automatic control of a series of individual steps.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Programme-controlled sewing machines (with embroidering capability)	D05B 19/00
Sewing machines with devices for automatically controlling movement of work-carrier relative to stitch-forming mechanism in order to obtain particular configuration of seam	D05B 21/00

D05C 7/00

Special-purpose or automatic embroidering machines

Definition statement

This subclass/group covers:

The embroidering machines where specific applications, e.g. for attaching decorative elements or for boring, can be carried out.

D05C 7/04

for boring or jogging

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Boring	is making a hole in the product
Jogging	is giving a slight push to a product in order to deform the product surface (e.g. embossing)

Synonyms and Keywords

In patent documents the following expressions/words "pierce" and "nudge" are often used as synonyms.

D05C 7/06

for embroidering festoons

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Festoons	are decorative chains or strips hanging between two points.
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Synonyms and Keywords

In patent documents the following expression "scalloping machine" is often used.

D05C 7/08

for attaching cords, tapes, bands, or the like

Definition statement

This subclass/group covers:

Machines for attaching cords, tapes, bands and sequins.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Work-feeding or -handling elements for attaching bands, ribbons, strips, or tapes or for binding in a sewing machine	D05B 35/06
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Special rules of classification within this group

The classification is desirably complemented with the Indexing Codes [D05D 2303/00](#) for identifying the applied objects or articles.

D05C 7/10

**for separating and burning-off parts of the base fabric
(making patterns or designs on fabrics by singeing or etching
D06C23/02)**

References relevant to classification in this group

This subclass/group does not cover:

Producing embroidered textiles by chemical means and transferring embroidered products to textiles	D06Q 1/005
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D05C 9/00

Appliances for holding or feeding the base fabric in

embroidering machines

Definition statement

This subclass/group covers:

Work holders or carriers, feeding arrangements, and systems for holding, stretching, suspending and balancing therefor.

D05C 11/00

Devices for guiding, feeding, handling, or treating the threads in embroidering machines; Machine needles; Operating or control mechanisms therefor

Definition statement

This subclass/group covers:

Devices acting directly or indirectly on the thread material used for embroidery.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Guides for filamentary materials	B65H 57/00
Moistening, sizing, oiling, waxing, colouring or drying filamentary material as additional measures during package formation	B65H 71/00
Needles for sewing	D05B 85/00
Sewing machine elements for supplying, handling or treating thread material	D05B 43/00 to D05B 67/00

D05C 11/02

Machine needles

Informative references

Attention is drawn to the following places, which may be of interest for search:

Needles for sewing	D05B 85/00
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D05C 11/04

Arrangements for fastening or inserting in bars or carriers

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for fastening needles to needle bars in sewing	D05B 55/02
Devices for inserting needles	D05B 55/04

Special rules of classification within this group

The classification is desirably complemented with the Indexing Codes [D05D 2203/00](#).

D05C 11/08

Thread-tensioning arrangements [N: (inside the shuttle D05C11/18)]

Definition statement

This subclass/group covers:

Thread-tensioning arrangements in embroidering machines.

References relevant to classification in this group

This subclass/group does not cover:

Thread-tensioning arrangements incorporated inside the shuttle	D05C 11/18
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Adjusting or controlling tension in filamentary material, e.g. for preventing snarling, application of tension indicators	B65H 59/00
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Needle-thread tensioning devices in sewing	D05B 47/00
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D05C 11/14

Stop motions responsive to thread tension or breakage

Informative references

Attention is drawn to the following places, which may be of interest for search:

Warning or safety devices, e.g. stop-motions, responsive to reduction in material tension, failure of supply, or breakage of material	B65H 63/02
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D05C 11/18

Shuttles; [N: Shuttle holders; Shuttle driving arrangements]

Definition statement

This subclass/group covers:

Shuttles, shuttle holders, shuttle driving arrangements, and systems for the preparation of the thread and the bobbin.

D05C 11/20

Arrangements for cutting the needle or lower threads

References relevant to classification in this group

This subclass/group does not cover:

Shearing embroidery, e.g. cutting loose threads	D06C 13/04
Removing floats	D06C 13/06

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for severing the needle or lower thread in sewing	D05B 65/00
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D05C 11/24

incorporating devices for dyeing or impregnating the threads

References relevant to classification in this group

This subclass/group does not cover:

Tufting by inserting loops of different colour	D05C 15/34.
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Printing on textile	B41J 3/4078
Moistening, sizing, oiling, waxing, colouring or drying filamentary material as additional measures during package formation	B65H 71/00
Dyeing or printing textiles	D06P
Partial dyeing of textile materials	D06B 11/00
Devices incorporated in sewing machines for lubricating, waxing, or colouring the threads	D05B 67/00

D05C 13/00

Auxiliary devices incorporated in embroidering machines, not otherwise provided for; Ancillary apparatus for use with embroidering machines

Definition statement

This subclass/group covers:

Auxiliary devices incorporated in embroidering machines, not otherwise

provided for, and ancillary apparatus for use with embroidering machines e.g. apparatuses for framing fabric in embroidery hoops, shuttle inserters, holding devices, apparatuses for needle threading, apparatuses for projecting sample designs.

D05C 13/02

Counting, measuring, indicating, warning, or safety devices

Informative references

Attention is drawn to the following places, which may be of interest for search:

Applications of devices for metering predetermined lengths of running material	B54H 61/00
Applications of measuring devices for determining the length of threads used in sewing machines	D05B 45/00

D05C 13/04

Lubricating devices

Informative references

Attention is drawn to the following places, which may be of interest for search:

Lubricating or cooling devices in sewing machines	D05B 71/00
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D05C 13/06

Apparatus for filling or threading shuttles

Informative references

Attention is drawn to the following places, which may be of interest for search:

Needle or looper threading devices in sewing	D05B 87/00
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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 D04H11/00)

Definition statement

This subclass/group covers:

Machines and methods for insertion of loops, which can be cut, into a base material.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Layered products forming non-woven pile fabrics	B32B
Pile-fabric looms	D03D 39/00
Woven pile fabrics	D03D 27/00
Non-woven pile fabrics	D04H 11/00

D05C 15/04

Tufting

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Tufting	is forming projections of yarns drawn through a fabric so as to produce a surface of raised loops or cut pile
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D05C 15/16

Arrangements or devices for manipulating threads (D05C15/26 takes precedence)

Definition statement

This subclass/group covers:

Arrangements or devices for manipulating threads, e.g. yarn adjusters to control length in proximity of the needle.

D05C 15/18

Thread feeding or tensioning arrangements

Definition statement

This subclass/group covers:

Thread feeding or tensioning arrangements, e.g. control of thread feeding.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Forwarding filamentary material	B65H 51/00
Adjusting or controlling tension in filamentary material, e.g. for preventing snarling, application of tension indicators	B65H 59/00

D05C 15/30

by moving the tufting tools laterally

Special rules of classification within this group

The classification is desirably complemented with the Indexing Codes [D05D 2207/00](#) for identifying the use of special elements, i.e. pneumatic, hydraulic or magnetic devices.

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 D04H11/00)

Definition statement

This subclass/group covers:

Products obtained by means of machines and methods of [D05C 1/00](#) to [D05C 15/00](#), the base fabrics and the inserts adapted for embroidered work.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Wearing apparel	A41
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D05C 17/02

Tufted products

Informative references

Attention is drawn to the following places, which may be of interest for search:

Artificial grass	A41G 1/009
Mats or the like for absorbing shocks for jumping, gymnastics or the like	A63B 6/00
Mats or carpets for courts	A63C 19/04
Floor fabrics	A47G 27/00
Non-slip mats for baths	A47K 3/002
Mats or gratings combined with brushes	A47L 23/26
Producing floor coverings from plastics	B29D 99/0057
Layered products	B32B
Flocking	B05D 1/14
Vehicle passenger accommodation not otherwise provided for	B60N
Fabrics, e.g. felts, non-woven fabrics, cotton-wool, wadding	D04H
Wall, floor or like covering materials	D06N
Pavings or foundations specially adapted for playgrounds or sports	E01C 13/00

grounds	
Flexible ohmic-resistance heating, e.g. heating nets or webs	H05B 3/34
Floors or floor coverings specially adapted for discharging static charges	H05F 3/02