D03D
WOVEN FABRICS; METHODS OF WEAVING; LOOMS

Definition statement

This place covers:

Woven fabrics or weaving processes resulting in particular woven fabrics. These aspects are covered by D03D 1/00 - D03D 27/00.

Specific types of weaving machines or processes to operate such weaving machines. These aspects are covered by D03D 29/00 - D03D 47/00.

Details or features common to different types of weaving machines. These aspects are covered by D03D 49/00 and D03D 51/00.

References

Limiting references

This place does not cover:

| Devices for warp yarn preparation (i.e. creeling, warping, beaming or leasing) | D02H |
| Shedding mechanisms | D03C |
| Auxiliary apparatuses combined with or associated with looms | D03J 1/00 |
| Post treatments of fabrics | D06B, D06C, D06M |

Informative references

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

| Knitting | D04B |
| Felts, non-woven fabrics, waddings and their manufacturing | D04H |
| Sewing | D05B |
| Embroidering and tufting | D05C |

Special rules of classification

Class D06 takes precedence over this subclass in respect of processes involving both weaving and finishing steps and in respect of the finished fabrics.

A method of weaving is classified in the group designating the fabric woven unless the method is characterised by the operation of a particular loom rather than by the production of a particular fabric. In this case, the method is classified in the group for the loom.

In this subclass, if there is any doubt as to which of the essential features is the most important (this is usually the most restrictive feature), the groups designating woven fabrics should be considered in the order in which they appear at each level of indentation, except that groups designating woven pile fabrics are to be considered as taking precedence over groups designating other woven fabrics.
D03D 1/00
Woven fabrics designed to make specified articles

Definition statement
This place covers:
Woven fabrics or weaving methods where the structure or method makes the fabric specifically suitable for a certain application (e.g. a warp and weft yarn density can make a fabric specifically suitable for use as an airbag).

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

| Special materials for outerwear | A41D 31/00 |
| Floor fabrics | A47G 27/00, D06N 7/00 |
| Fire-resistant or fire-fighters’ clothes | A62B 17/003 |
| Fibrous reinforcements in composites | B29C 70/222, B29C 70/224, B29C 70/24 |
| Papermaking fabrics | D21F 1/0036, D21F 1/0054, D21F 1/105, D21F 1/12, D21F 1/16, D21F 7/10 |
| Surfaces simulating grass | E01C 13/08 |
| Window screens | E06B |
| Lighting devices or systems using a string or strip of light sources, e.g. lighting webs | F21S 4/00 |

Special rules of classification
Documents should only be classified here if the invention is specifically directed to the weaving of the product and has general relevance for weaving. Otherwise the documents should only be classified in the relevant application fields (see informative references).

The following Indexing Codes should be used in D03D 1/00:
- physical properties D10B 2401/00;
- wearing apparel D10B 2501/00;
- domestic or personal use D10B 2503/00;
- industrial use D10B 2505/00;
- sport or military use D10B 2507/00;
- medical or hygiene use D10B 2509/00.
D03D 1/0005

{Woven fabrics for safety belts}

References
Informative references

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

| Safety belts in general | B60R 22/00 |

D03D 1/0023

{Mobs or wipes}

References
Informative references

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

| Cleaning cloths | A47L 1/15, A47L 13/16 |

D03D 1/0047

{Camouflage fabrics}

Definition statement

This place covers:
Camouflage fabrics e.g. for visual or thermal camouflage, e.g. with heat reflective properties.

D03D 1/0052

{Antiballistic fabrics}

Definition statement

This place covers:
Antiballistic woven fabrics or woven layers.

References
Informative references

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

| Armoured or projectile- or missile garments, composite protection fabrics | F41H 1/02 |
| Armour or armour plates comprising fibre or fabric reinforced layers | F41H 5/00, F41H 5/0435, F41H 5/0478 |
D03D 1/0064
{Noise dampening}

Definition statement
This place covers:
Fabrics designed to dampen noise.

D03D 1/007
{UV radiation protecting}

Definition statement
This place covers:
Fabrics normally used to provide protection from sun or UV-radiation, i.e. sunscreens.

D03D 1/0076
{Photovoltaic fabrics}

Definition statement
This place covers:
Woven fibre structures for solar cells.

D03D 1/0082
{Fabrics for printed circuit boards}

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

| Flexible or folded printed circuits                      | H05K 1/189 |

D03D 1/0088
{Fabrics having an electronic function}

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

| Garments adapted to accommodate electronic equipment       | A41D 1/002 |
D03D 1/0094

{Belts (D03D 1/0005 takes precedence)}

Definition statement

This place covers:
All kinds of woven belts not covered by other groups.

References

Limiting references

This place does not cover:

| Tapes or ribbons | D03D 3/005 |

Informative references

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

| Conveyor belts with reinforcing layers | B65G 15/34 |
| Reinforcement belts for tyres | D10B 2505/022, B60C 9/00 |
| Driving belts in general | F16G 1/00 |

D03D 1/02

Inflatable articles

References

Informative references

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

| Airbags in general | B60R 21/16 |
| Airbags characterised by their material | B60R 21/235 |

D03D 1/06

Curtain heading tapes

References

Informative references

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

| Means for forming pleats in curtains on curtain rods or rails | A47H 13/14 |
D03D 1/08

Ladder tapes (ladder tapes for venetian blinds E06B 9/382)

Definition statement

This place covers:

Two tapes which are connected by threads or connecting layers which are designed to hold slats of fabric, wood, plastic or metal that adjust by rotating from an open position to a closed position by allowing slats to overlap. The scope of this group also covers full width fabrics having tapes or fabrics connected by connecting layers whereby the connecting layers themselves constitute the slats that adjust that adjust by rotating from an open position to a closed position by allowing the slats to overlap.

Illustrative example of subject matter classified in this group (DE-A-105 17 46):

![Diagram of ladder tapes](image)

References

Informative references

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

| Details of ladder tapes or ladder chains for venetian blinds | E06B 9/382 |
**D03D 3/00**

Woven fabrics characterised by their shape

**Definition statement**

*This place covers:*

Fabrics which are woven to assume a special shape. This shape is not achieved by cutting or by any other post-processing step.

**D03D 3/005**

{Tapes or ribbons not otherwise provided for (D03D 1/0005, D03D 1/0011, D03D 1/06, D03D 1/08, D03D 1/0094 take precedence)}

**Definition statement**

*This place covers:*

Tapes or ribbons not covered by other groups.

**References**

**Limiting references**

*This place does not cover:*

| Safety belts                   | D03D 1/0005  |
| Tapes for labels               | D03D 1/0011  |
| Belts                          | D03D 1/0094  |
| Curtain heading tapes          | D03D 1/06    |
| Ladder tapes                   | D03D 1/08    |
| Slide fastener tapes           | D10B 2501/063|

**Informative references**

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

| Smallware looms                  | D03D 35/00, D03D 47/02 |

**D03D 3/02**

Tubular fabrics

**Definition statement**

*This place covers:*

Sleeve-like structures.

**References**

**Informative references**

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

| Vascular stents                  | A61F 2/82, D10B 2509/06 |
Hoses made of fibres or threads \( \rightarrow \) F16L 11/02
Insulation of connections using a heat shrinking insulating sleeve \( \rightarrow \) H01R 4/72

### D03D 3/04

**Endless fabrics**

**Definition statement**

*This place covers:*

Endless fabrics, for example belts without a seam.

**References**

**Limiting references**

*This place does not cover:*

| Papermaking fabrics | D21F 1/0036, D21F 1/0054, D21F 1/105, D21F 1/12, D21F 1/16, D21F 7/10 |

### D03D 5/00

**Selvedges**

**Definition statement**

*This place covers:*

Selvedges, i.e. the side edges of woven fabrics.

**References**

**Limiting references**

*This place does not cover:*

| Means to form selvedges | D03D 47/40 |
| Selvedge jacquards | D03C 3/18 |
| Leno shedding mechanisms | D03C 7/00 |
| Selvedge shedding mechanisms not forming part of main shedding | D03C 11/00 |

### D03D 7/00

**Woven fabrics designed to be resilient, i.e. to recover from compressive stress**

**Definition statement**

*This place covers:*

Multi-layered fabrics with elastic yarns connecting the individual layers in particular spacer fabrics.
**D03D 9/00**

Open-work fabrics (ladder-tape fabrics **D03D 1/08**)

**Definition statement**

*This place covers:*

Net like fabrics, with spaced warp and weft yarns, whereby the spacing is resulting from the weaving process.

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Fabric Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net like structure woven using a leno weave</td>
<td>D03D 19/00</td>
</tr>
</tbody>
</table>

**Informative references**

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

<table>
<thead>
<tr>
<th>Reference Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtering materials</td>
<td>B01D 39/08</td>
</tr>
<tr>
<td>Wire nets</td>
<td>B21F 27/00</td>
</tr>
<tr>
<td>Mesh fabrics as backings</td>
<td>B24D 11/02</td>
</tr>
</tbody>
</table>

**D03D 11/00**

Double or multi-ply fabrics not otherwise provided for

**Definition statement**

*This place covers:*

Fabrics with multiple woven layers connected by warp or weft yarns, the layers being all of the same size, i.e. the dimension of the layers does not vary in the z-direction (i.e. the direction perpendicular to the warp and weft yarns).

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Fabric Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-ply fabrics in which the length or width direction is limited to a predetermined dimension in order to create a rectangular or other three dimensional shape</td>
<td>D03D 25/005</td>
</tr>
<tr>
<td>Layered products whereby the layers are not connected by warp or weft yarns, i.e. layers connected by lamination</td>
<td>B32B 5/26</td>
</tr>
</tbody>
</table>

**Informative references**

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

<table>
<thead>
<tr>
<th>Reference Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibrous reinforcements for composites</td>
<td>B29C 70/222, B29C 70/224, B29C 70/24</td>
</tr>
</tbody>
</table>
D03D 13/00
Woven fabrics characterised by the special disposition of the warp or weft threads, e.g. with curved weft threads, with discontinuous warp threads, with diagonal warp or weft threads.

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

| Fabrics with non-woven perpendicular yarns, which can be connected by woven weft and/or warp yarns | D04H 3/04 |

D03D 13/004
{with weave pattern being non-standard or providing special effects}

Definition statement
This place covers:
Fabrics characterised by their weave pattern.
Fabrics having a non-standard weave pattern (standard weave patterns are e.g. plain weave, twill, basket, sateen etc).
Fabrics having a standard weave pattern but new effects are created due to the pattern.

D03D 13/006
{with additional leno yarn}

Definition statement
This place covers:
Fabric patterns with a leno binding yarn additional to the weft and warp yarns, e.g. for fixing yarns in reinforcement fabrics.

References
Limiting references
This place does not cover:

| Leno yarns in selvedges | D03D 5/00 |
| Gauze or leno woven fabrics (i.e. fabrics consisting mainly of leno yarns in the warp) | D03D 19/00 |

D03D 13/008
{characterised by weave density or surface weight}

Definition statement
This place covers:
Fabrics characterised by the yarn fineness, the weave density or surface weight.
D03D 15/00

Woven fabrics characterised by the material or construction of the yarn or other warp or weft elements used

Definition statement

This place covers:
Woven fabrics characterised by the material or construction of the yarn or other warp or weft elements used.

References

Informative references

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

<table>
<thead>
<tr>
<th>Yarns per se</th>
<th>D02G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knitted fabrics characterised primarily by the use of a particular thread material</td>
<td>D04B 1/14, D04B 21/14</td>
</tr>
</tbody>
</table>

Special rules of classification

Documents should only be classified here if the invention is directed to the weaving and has general relevance for weaving. Documents should not be classified here if the application relates to properties of the yarns and a woven fabric is mentioned only by way of example.

The following Indexing Codes are used in D03D 15/00:

• cellulose-based fibres, e.g. vegetable fibres D10B 2201/00;
• protein-based fibres, e.g. animal fibres D10B 2211/00;
• fibres made from polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds D10B 2321/00;
• fibres made from polymers obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polycondensation products D10B 2331/00.

D03D 15/0005

{Antistatic fabrics}

References

Informative references

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

<table>
<thead>
<tr>
<th>Yarns or threads with antistatic properties</th>
<th>D02G 3/441</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floors or floor coverings specially adapted for discharging static charges</td>
<td>H05F 3/025</td>
</tr>
</tbody>
</table>
D03D 15/0011
(using glass fibres)

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

| Yarns or threads made from glass or the like | D02G 3/18 |

D03D 15/0016
(using threads comprising a mineral)

Definition statement
This place covers:
Fabrics with warp and/or weft threads comprising a mineral like rock or basalt.

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

| Yarns or threads made from mineral substances | D02G 3/16 |

D03D 15/0022
(using threads with beads)

Definition statement
This place covers:
Fabrics with warp and/or weft threads containing beads, pearls and the like

D03D 15/0027
(using bicomponent threads)

Definition statement
This place covers:
Fabrics with warp and/or weft threads comprising a bicomponent yarn, e.g. of sheath core type.

Glossary of terms
In this place, the following terms or expressions are used with the meaning indicated:

| Bicomponent threads | indicates yarns having two different components either by chemical means (e.g. core-sheath, island-in-sea, etc.) or mechanical means (i.e. cored, coated, cabled etc) |
**D03D 15/0033**

{using coloured threads}

**Definition statement**

*This place covers:*

Fabrics with effects due to the use of warp and/or weft threads of specific colour(s).

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**D03D 15/0038**

{using threads made of delicate fibers}

**Definition statement**

*This place covers:*

Fabrics with warp and/or weft threads comprising delicate fibres, e.g. silk, cashmere.

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**D03D 15/0044**

{using knitted threads}

**Definition statement**

*This place covers:*

Fabrics with warp and/or weft threads of knitted strips.

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**References**

**Informative references**

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

| Warp knitted yarns | D04B 21/202 |

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**D03D 15/005**

{using leather threads}

**Definition statement**

*This place covers:*

Fabrics with warp and/or weft threads comprising leather.

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**D03D 15/0055**

{using magnetic threads}

**Definition statement**

*This place covers:*

Fabrics with warp and/or weft threads having magnetic properties.
D03D 15/0061
{using threads with microdenier fibers}

**Definition statement**

This place covers:
Fabrics with warp and/or weft yarns with extremely fine staple fibres or filaments (typically less than 1 dtex).

D03D 15/0066
{using threads with a noble metal}

**Definition statement**

This place covers:
Fabrics with warp and/or weft threads comprising "noble metal" : e.g. gold, silver, platinum, iridium.

D03D 15/0072
{using paper threads}

**Definition statement**

This place covers:
Fabrics with warp and/or weft threads of paper, often paper strips.

**References**

**Informative references**

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

| Paper yarns or threads | D02G 3/08. |

D03D 15/0077
{using fancy or textured threads (chenille yarns are in D03D 27/18)}

**Definition statement**

This place covers:
Fabrics with warp and/or weft threads comprising textured or fancy yarns.

**References**

**Informative references**

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

| Yarns or threads having slubs, knops, spirals, loops, tufts or other irregular or decorative effects | D02G 3/34. |
D03D 15/0083
{using threads having a particular sectional shape}

**Definition statement**

*This place covers:*
Fabrics with warp and/or weft threads defined by a particular cross-sectional shape.

D03D 15/0088
{Flat threads}

**Definition statement**

*This place covers:*
Fabrics with warp and/or weft threads which are flat or tape-like.

**References**

*Informative references*

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

| Looms for weaving flat yarns | D03D 41/008 |

D03D 15/0094
{using threads with different diameters}

**Definition statement**

*This place covers:*
Fabrics comprising yarns of different diameters or linear densities.

D03D 15/12

using heat-resistant or fireproof threads

**References**

*Informative references*

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

| Special materials for outerwear against fire and heat | A41D 31/0022 |
| Fire-resistant or fire-fighters’ clothes | A62B 17/00 |
| Heat-resistant, fireproof or flame-retardant yarns or threads | D02G 3/443 |
D03D 17/00
Woven fabrics having elastic or stretch properties due to manner of weaving (fabrics using stretchable or elastic threads D03D 15/08)

Definition statement
This place covers:
Woven fabrics having elastic or stretch properties due to the manner of weaving.

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

| Fabrics using stretchable or elastic threads | D03D 15/08 |

D03D 19/00
Gauze or leno-woven fabrics

Definition statement
This place covers:
Fabrics comprising mainly leno yarns outside the selvedges. The leno yarns are normally provided to ensure that the warp yarns do not slide along the weft yarns in loosely woven fabrics.

References
Limiting references
This place does not cover:

| Selvedges with or without leno yarns | D03D 5/00 |
| Fabric with a leno binding yarn additional to the weft and warp yarns, e.g. for fixing yarns in reinforcement fabrics | D03D 13/006 |
| Leno shedding mechanisms | D03C 7/00 |

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

| Filtering materials | B01D 39/08 |
| Wire nets | B21F 27/00 |
| Mesh fabrics as backings | B24D 11/02 |

D03D 21/00
Lappet- or swivel-woven fabrics

Definition statement
This place covers:
Fabrics with yarns passing only over part of the width or length of the fabric.
Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lappet</td>
<td>weaving is figured by the introduction of additional warp yarns which pass only over part of the length of the fabric</td>
</tr>
<tr>
<td>Swivel</td>
<td>weaving is figured by the introduction of additional weft yarns which pass only over part of the width of the fabric</td>
</tr>
</tbody>
</table>

D03D 23/00

General weaving methods not special to the production of any particular woven fabric or the use of any particular loom; Weaves not provided for in any other single group

Definition statement

This place covers:
Weaving methods of fabrics which are not specific for a certain loom.

D03D 25/00

Woven fabrics not otherwise provided for

Definition statement

This place covers:
Woven fabrics not otherwise provided for.

D03D 25/005

{Three-dimensional woven fabrics}

Definition statement

This place covers:
Integrally woven 3D-constructions. It also covers multi-ply fabrics in which the length or width direction is limited to a predetermined dimension in order to create a rectangular shape.

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-ply fabrics which extend, apart from having a certain thickness, in two directions</td>
<td>D03D 11/00</td>
</tr>
</tbody>
</table>

Informative references

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

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibrous reinforcements in composites</td>
<td>B29C 70/222, B29C 70/224, B29C 70/24</td>
</tr>
</tbody>
</table>
D03D 27/00
Woven pile fabrics

Definition statement
This place covers:
Woven pile fabrics.

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

| Carpets in general | A47G 27/02 |

D03D 27/08
Terry fabrics

Definition statement
This place covers:
Terry fabrics, e.g. towels, beach robes.

D03D 27/10
Fabrics woven face-to-face, e.g. double velvet

Definition statement
This place covers:
Fabrics consisting of two layers which are connected by pile yarns, the two layers being simultaneously woven on the loom.

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

| Face to face fabrics which are not cut | D03D 7/00, D03D 11/00 |

D03D 27/12
wherein pile tufts are inserted during weaving

Definition statement
This place covers:
In particular fabrics woven on Axminster looms.
D03D 27/18
Chenille fabrics

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

| Chenille threads | D02G 3/42 |

Glossary of terms
In this place, the following terms or expressions are used with the meaning indicated:

| Chenille yarn | is manufactured by placing short lengths of yarn, called the "pile", between two "core yarns" and then twisting the yarn together. The edges of these piles then stand at right angles from the yarn’s core, giving chenille both its softness and its characteristic look. Chenille will look different in one direction compared to another, as the fibres catch the light differently. |

D03D 29/00
Hand looms

Definition statement
This place covers:
Looms where the weft thread is inserted by hand.

D03D 31/00
Lappet, swivel or other looms for forming embroidery-like decoration on fabrics

Glossary of terms
In this place, the following terms or expressions are used with the meaning indicated:

| Lappet | weaving is figured by the introduction of additional warp yarns which pass only over part of the length of the fabric |
| Swivel | weaving is figured by the introduction of additional weft yarns which pass only over part of the width of the fabric |

D03D 33/00
Multiple looms, i.e. two or more looms assembled together, whether or not they have mechanisms in common (D03D 35/00 takes precedence)

Definition statement
This place covers:
Multiple looms, i.e. two or more looms assembled together, whether or not they have mechanisms in common.
**D03D 35/00**

Smallware looms, i.e. looms for weaving ribbons or other narrow fabrics (**D03D 47/00** takes precedence)

**Definition statement**

*This place covers:*

Smallware looms, i.e. looms for weaving ribbons or other narrow fabrics.

**References**

*Informative references*

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

| Ribbons or narrow fabrics | D03D 3/005 |

**D03D 37/00**

Circular looms (looms for weaving separate fabrics disposed in a circle or polygon **D03D 33/00**)

**Definition statement**

*This place covers:*

Looms where the weft inserting means follows a circular path.

**D03D 39/00**

Pile-fabric looms

**Definition statement**

*This place covers:*

Looms for weaving pile fabrics.

**D03D 39/02**

Axminster looms, i.e. wherein pile tufts are inserted during weaving

**References**

*Informative references*

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

| Woven pile fabrics wherein pile tufts are inserted during weaving | D03D 27/12 |

**D03D 39/04**

Spool Axminster looms

**Definition statement**

*This place covers:*

Axminster looms where the yarn comes from a tube, actuated mechanically, without gripper.
References

Informative references

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

| Methods or apparatus with yarn packages as yarn supply | B65H 49/02 or B65H 49/18 |
| Creels | D02H 1/00 |

D03D 39/083

{Selecting mechanisms}

Definition statement

This place covers:
The tuft yarn selection in Axminster looms.

D03D 39/223

{Cloth control}

Definition statement

This place covers:
Cloth shifting type terry looms.

D03D 39/226

{Sley control}

Definition statement

This place covers:
Sley movement adjusting type terry looms.

D03D 41/00

Looms not otherwise provided for, e.g. for weaving chenille yarn; Details peculiar to these looms

Definition statement

This place covers:
Looms not otherwise provided for, e.g. for weaving chenille yarns.

D03D 41/005

{Linear-shed multiphase looms}

Definition statement

This place covers:
Looms with a rotor having multiple weft insertion channels in each of which a weft is inserted into the shed simultaneously.
Documents relating to the Sulzer rotor loom.

**D03D 41/007**

{Vertical looms}

**Definition statement**

This place covers:

Looms with a vertical arrangement of the warp yarns at the weft insertion position.

**D03D 41/008**

{Looms for weaving flat yarns}

**Definition statement**

This place covers:

Looms especially adapted to weave fabrics with flat yarns in the warp or weft.

**References**

*Informative references*

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

| Fabrics using flat yarns | D03D 15/0088 |

**D03D 43/00**

Looms with change-boxes

**Definition statement**

This place covers:

Shuttle looms which have shuttle boxes for storing multiple shuttles, in particular with different weft yarns, from which the shuttles are selected in accordance with a specific pattern.

**D03D 43/02**

with drop boxes

**Definition statement**

This place covers:

Change boxes with compartments in a non-rotary arrangement, in which the shuttles are dropped.

**D03D 43/06**

with rotary boxes

**Definition statement**

This place covers:

Change boxes with compartments in a rotary arrangement, in which the shuttles are dropped.
**D03D 45/00**
Looms with automatic weft replenishment (automatic replenishment in smallware looms D03D 35/00, in circular looms D03D 37/00; bobbins rewound on loom D03J 1/12)

**Definition statement**
This place covers:
Automatic replenishment of weft yarn stored in a shuttle.

**D03D 47/00**
Looms in which bulk supply of weft does not pass through shed, e.g. shuttleless looms, gripper shuttle looms, dummy shuttle looms (circular looms D03D 37/00)

**Definition statement**
This place covers:
Looms in which the weft yarn is stored outside the shed (often at the side) and taken up by weft insertion means for introduction into the shed, e.g. rapier looms, needle looms and fluid jet looms.

**D03D 47/02**
wherein loops of continuous weft thread are inserted, i.e. double picks

**Definition statement**
This place covers:
Looms wherein loops of continuous weft thread are inserted, e.g. smallware looms where loops of weft yarn are normally inserted with a needle.

**D03D 47/12**
wherein single picks of weft thread are inserted, i.e. with shedding between each pick

**Definition statement**
This place covers:
Looms wherein single picks of weft thread are inserted, e.g. with a rapier.

**D03D 47/125**
{Weft holding devices (if the weft is reinserted in the next shed D03D 47/48; in jet looms D03D 47/308)}

**Definition statement**
This place covers:
Means for holding the weft at the side of the shed.
References

Informative references

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

| Stretching or holding the weft in jet looms | D03D 47/308 |
| Forming selvedges by inserting cut end of weft in next shed | D03D 47/48 |

D03D 47/20

Constructional features of the thread-engaging device on the inserters

Definition statement

This place covers:
Details of rapier grippers.

D03D 47/233

{Carrying grippers}

Definition statement

This place covers:
Carrying, giver or bringing grippers for transporting the weft to the middle of the shed.

Special rules of classification

Documents describing additionally the drawing gripper in detail are additionally classified in D03D 47/236.

D03D 47/236

{Drawing grippers}

Definition statement

This place covers:
Drawing, taker, pulling or receiving grippers for transporting the weft from the middle of the shed to the end of the shed.

Special rules of classification

Documents describing additionally the carrying gripper in detail are additionally classified in D03D 47/233.

D03D 47/24

by gripper or dummy shuttle (travelling-wave-shed looms D03D 47/26; inserting mechanisms for shuttles D03D 49/24; gripper or dummy shuttles per se D03J 5/06)

Definition statement

This place covers:
Projectile looms, where the shuttle does not carry a bobbin.
**D03D 47/26**

**Travelling-wave-shed looms**

**Definition statement**

*This place covers:*

Looms having multiple phase shifted sheds and a rotary reed.

---

**D03D 47/27**

**Drive or guide mechanisms for weft inserting**

**Definition statement**

*This place covers:*

Drive or guide means for weft thread insertion.

---

**References**

**Limiting references**

*This place does not cover:*

| Guide mechanisms for pneumatic looms (normally means for creating an air channel for weft insertion) | D03D 47/278 |
| Carrying the weft thread with a fluid through the shed | D03D 47/28 |

---

**Informative references**

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

| Drive means for shuttle looms | D03D 49/24 |

---

**Glossary of terms**

*In this place, the following terms or expressions are used with the meaning indicated:*

In this group, the following terms are relevant for correct classification:

| Rapier | means for carrying the weft thread through the shed with a rod (sometimes also called lance or needle) or a flexible band |
| Drive mechanism | the part outside the shed driving the means for carrying the weft thread through the shed |
| Guide mechanism | parts inside and outside the shed to guide the means for carrying the weft threads through the shed |

---

**D03D 47/271**

{|Rapiers|}

**Definition statement**

*This place covers:*

Rapiers, i.e. means to insert the weft thread with a flexible band or rod.
D03D 47/272
{Rapier bands}

Definition statement
This place covers:
Details of the rapier band.

D03D 47/273
{Rapier rods}

Definition statement
This place covers:
Details of the rapier rod.

References
Limiting references
This place does not cover:

| Needles for smallware looms | D03D 47/02 |

Synonyms and Keywords
In the documents, the following words "rod", "lance" and "needle" are often used as synonyms. However, weft insertion needles as used in smallware looms are not considered to be rapier rods.

D03D 47/275
{Drive mechanisms}

Definition statement
This place covers:
The part outside the shed driving the means for carrying the weft thread through the shed.

D03D 47/277
{Guide mechanisms (for shuttles D03D 49/24)}

Definition statement
This place covers:
Guides for all insertion means except shuttle. For example: grippers, bands, lances or dummy shuttles.
**D03D 47/278**

*{for pneumatic looms}*

**Definition statement**

*This place covers:*

Means for creating an air channel for weft insertion.

**D03D 47/3046**

*{Weft yarn selection}*

**Definition statement**

*This place covers:*

The weft yarn selection on air jet looms.

**D03D 47/306**

*{Construction or details of parts, e.g. valves, ducts}*

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift valves with valve members of conical shape (i.e. throttle valves)</td>
<td>F16K 1/38</td>
</tr>
<tr>
<td>Operating means, releasing means using a motor in general</td>
<td>F16K 31/04</td>
</tr>
</tbody>
</table>

**D03D 47/34**

*Handling the weft between bulk storage and weft-inserting means*

**Definition statement**

*This place covers:*

All aspects concerning the handling of the weft yarns from the weft yarn supply means (i.e. normally bobbins) up to (but not including) the weft insertion.

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods and apparatuses for unwinding or paying-out filamentary material from packages in general</td>
<td>B65H 49/02, B65H 49/18</td>
</tr>
<tr>
<td>Forwarding filamentary material</td>
<td>B65H 51/00</td>
</tr>
<tr>
<td>Guides for filamentary material</td>
<td>B65H 57/00</td>
</tr>
<tr>
<td>Guides for filamentary material adapted to prevent excessive ballooning</td>
<td>B65H 57/22</td>
</tr>
</tbody>
</table>
**D03D 47/342**

{knot detection}

**Definition statement**

*This place covers:*

Systems for detecting wefts with faults such as knots.

**Special rules of classification**

If the knot detection is part of a weft stop motion additionally the class D03D 51/34 is given.

**D03D 47/345**

{Rotating bobbins}

**Definition statement**

*This place covers:*

Bulk storage bobbins which are rotatable supported and/or driven for lateral unwinding without inducing twist to the yarn.

**D03D 47/347**

{Yarn brakes (**D03D 47/36** takes precedence)}

**Definition statement**

*This place covers:*

Braking devices for weft yarns to be inserted.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warp yarn tension regulation</td>
<td>D03D 49/04</td>
</tr>
<tr>
<td>Adjusting or controlling tension in filamentary material in general</td>
<td>B65H 59/00</td>
</tr>
</tbody>
</table>

**D03D 47/36**

**Measuring and cutting the weft {; Devices for measuring and temporary storing the weft (cutting weft threads **D03D 49/70**)}**

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices for temporarily storing filamentary material during forwarding in general</td>
<td>B65H 51/20</td>
</tr>
<tr>
<td>Applications or devices for metering predetermined lengths of running material (i.e. yarns) in general</td>
<td>B65H 61/00</td>
</tr>
</tbody>
</table>
D03D 47/362
{with yarn retaining devices, e.g. stopping pins (D03D 47/367 takes precedence)}

References

Informative references

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clamping devices (i.e. yarn stoppers) in general</td>
<td>B65H 63/088</td>
</tr>
</tbody>
</table>

D03D 47/365
{Brushes}

Definition statement

This place covers:
Braking bodies being constituted by a brush.

D03D 47/366
{Conical}

Definition statement

This place covers:
(Frusto-) conical braking bodies.

D03D 47/368
{Air chamber storage devices}

Definition statement

This place covers:
Feeding devices in which the weft is temporarily stored in an air chamber, e.g. as loops or coils.

D03D 47/369
{Communication systems}

Definition statement

This place covers:
Communication systems between pre-winders and the loom.

References

Informative references

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programme-control systems in general</td>
<td>G05B 19/00</td>
</tr>
</tbody>
</table>
### D03D 47/38

**Weft pattern mechanisms**

#### References

**Limiting references**

*This place does not cover:*

| Pneumatic weft pattern mechanisms | D03D 47/3046 |

### D03D 47/40

**Forming selvedges**

#### Definition statement

*This place covers:*

Means, other than a separate shedding mechanism, necessary for the formation of selvedges, i.e. the side edges of woven fabrics.

#### References

**Limiting references**

*This place does not cover:*

| Elvedges | D03D 5/00 |
| Selvedge jacquards | D03C 3/18 |
| Selvedge shedding mechanisms not forming part of main shedding mechanism | D03C 11/00 |

### D03D 49/00

**Details or constructional features not peculiar to looms of a particular type (temples D03J 1/22)**

#### References

**Informative references**

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

| Sliding-contact bearings | F16C 27/02 |
| Clutches in which the members have interengaging parts | F16D 11/00 |
D03D 49/022

{Protective hoods or curtains}

References

Informative references

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

| Climatic conditioning or removing lint or dust | D03J 1/002 |

D03D 49/12

Controlling warp tension by means other than let-off mechanisms

Definition statement

This place covers:

Controlling warp tension by means other than let-off mechanisms, e.g. by cloth take-up.

References

Informative references

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

| Back rest; lease rods; brest beams | D03D 49/22 |

D03D 49/16

Warp supplied by creel

References

Informative references

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

| Methods or apparatus in which yarn packages do not rotate | B65H 49/02 |
| Methods or apparatus in which yarn packages rotate | B65H 49/18 |
| Creels | D02H 1/00 |

D03D 49/22

Back rests; Lease rods; Brest beams

Definition statement

This place covers:

Bars which extend across the width of the warps or of the woven fabric.
**D03D 49/70**

Devices for cutting weft threads (cutting weft in looms with automatic weft replenishment **D03D 45/50**; apparatus for slitting fabric **D03J 1/08**)

**Definition statement**

*This place covers:*

The cutting of weft threads including the cutting of weft threads for removing selvedges.

**References**

**Limiting references**

*This place does not cover:*

Removing of selvedges not on the loom **D06H 7/06**.

**Informative references**

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

- Forming selvedges **D03D 47/40**.

---

**D03D 51/00**

Driving, starting, or stopping arrangements; Automatic stop motions {(loom control associated with fabric inspection on the loom **D03J 1/007**)}

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlling a group of looms</td>
<td><strong>D03J 1/006</strong></td>
</tr>
<tr>
<td>Clutches in which the members have interengaging parts</td>
<td><strong>F16D 11/00, F16D 11/16</strong></td>
</tr>
<tr>
<td>Programme-control systems in general</td>
<td><strong>G05B 19/00</strong></td>
</tr>
<tr>
<td>Dynamo-electric machines (i.e. electric motors in general)</td>
<td><strong>H02K</strong></td>
</tr>
<tr>
<td>Communication between machines in general</td>
<td><strong>H04L 29/00</strong></td>
</tr>
</tbody>
</table>

---

**D03D 51/005**

{Independent drive motors (independent frame drives for dobbies **D03C 1/146**, for other shedding mechanisms **D03C 13/02**)}

**Definition statement**

*This place covers:*

Operation and synchronisation of independent motors in looms.
D03D 51/007

{Loom optimisation}

**Definition statement**

*This place covers:*

Controlling one or more looms, e.g. by speed variation, to find an optimal operating condition.

D03D 51/18

**Automatic stop motions**

**Definition statement**

*This place covers:*

Methods and their implementations to detect broken warp or weft yarns and to stop the weaving machine upon this detection.

**References**

**Informative references**

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

| Warning or safety devices for yarns in general | B65H 63/00 |

D03D 51/20

**Warp stop motions**

**Definition statement**

*This place covers:*

Methods and their implementations to detect broken warp yarns and to stop the weaving machine upon this detection.

D03D 51/28

**electrical**

**Definition statement**

*This place covers:*

E.g. optical warp stop motions.

D03D 51/34

**Weft stop motions**

**Definition statement**

*This place covers:*

Methods and their implementations to detect broken weft yarns and to stop the weaving machine upon this detection.
References

Informative references

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

| Knot detection | D03D 47/342 |

D03D 51/40

Shuttle stop motions

Definition statement

*This place covers:*

Methods and their implementations to detect broken weft yarns which are inserted by a shuttle and to stop the weaving machine upon this detection.

D03D 51/44

acting on defective operation of loom mechanisms

Definition statement

*This place covers:*

Methods and their implementations to stop the weaving machine upon detection of failure in the operation of one or more of the loom mechanisms.