D02H

WARPING, BEAMING OR LEASING

Definition statement

This subclass/group covers:
Apparatuses and methods for warping, beaming and leasing of warp yarns in preparation of the weaving process.

Glossary of terms

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warping</td>
<td>comprises winding parts of the warp yarns, normally from bobbins, on a warping beam, whereby sequential parts are wound next to each other until the full weaving width is covered. The warping beam is then normally in a next step of warp preparation used for beaming.</td>
</tr>
<tr>
<td>Beaming</td>
<td>comprises winding the full width of the warp yarns in a single winding operation on the weaving beam (i.e. the beam which is to be placed on the loom). The warp yarns can be wound from a creel or a warping beam.</td>
</tr>
<tr>
<td>Leasing</td>
<td>comprises inserting lease cords between the warp yarns to separate groups of warp yarns.</td>
</tr>
<tr>
<td>Fibre</td>
<td>a relatively-short, elongated member of natural or artificial material</td>
</tr>
<tr>
<td>Filament:</td>
<td>an endless or quasi-endless, elongated member of natural (e.g. silk) or artificial material</td>
</tr>
<tr>
<td>Yarn</td>
<td>a unitary assembly of fibres, usually produced by spinning</td>
</tr>
<tr>
<td>Thread:</td>
<td>an assembly of yarns or filaments, usually produced by twisting</td>
</tr>
</tbody>
</table>
**D02H 1/00**

Creels, i.e. apparatus for supplying a multiplicity of individual threads

**Definition statement**

*This subclass/group covers:*

Structures with yarn packages for supplying a multiplicity of individual threads in particular to warping machines or looms.

Illustrative example of subject matter classified in this group (EP-A1-0 732 433):

![Diagram of a creel system with yarn packages and labels indicating various parts of the creel system.](image)

**Informative references**

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

<table>
<thead>
<tr>
<th>Methods and apparatus with yarn packages for supplying individual threads (i.e. creels in general)</th>
<th>B65H 49/02, B65H 49/18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlling warp tension if the warp is supplied to the weaving machine by a creel</td>
<td>D03D 49/16</td>
</tr>
</tbody>
</table>

**D02H 3/00**

Warping machines

**Definition statement**
This subclass/group covers:
Apparatuses and methods for winding warps normally from a creel on a beam (from where it is, as a next step, normally wound on the warp beam of the loom).

D02H 3/02
[N: Sectional warpers]

Definition statement
This subclass/group covers:
Sectional warpers which normally feature a large drum and feeding warp threads perpendicular to the drum axis from a bobbin creel.

Illustrative example of subject matter classified in this group (EP-A2-1 510 605):

![Diagram of sectional warper]

D02H 3/04
[N: Sample warpers]

Definition statement
This subclass/group covers:
Warpers for warping relatively short lengths of warp threads which are used for weaving a sample fabric. These warpers are normally sectional warpers with sideways winding from a bobbin creel.
Illustrative example of subject matter classified in this group (DE-A1-102006023496):

**D02H 5/00**

**Beaming machines**

**Definition statement**

*This subclass/group covers:*

Apparatuses and methods for beaming whereby a full width of warp yarns is wound in a single winding operation on the weaving beam (i.e. the beam to be placed in the loom). The warp yarns can be unwound from a creel (i.e. direct beaming) or from a warping beam.

**D02H 7/00**

**Combined warping and beaming machines**

**Definition statement**

*This subclass/group covers:*

Machines wherein the functions of warping and beaming are united, e.g. by using sectional beaming to create a beam which can be directly used in a weaving machine.

**References relevant to classification in this group**
This subclass/group does not cover:

Direct beaming wherein the whole width of warp yarns is beamed at once | D02H 5/00

**D02H 9/00**

Leasing

**Definition statement**

This subclass/group covers:
Apparatuses and methods for inserting lease cords between the warp yarns to separate groups of warp yarns.

**D02H 11/00**

Methods or apparatus not provided for in the preceding groups, e.g. for cleaning the warp

**Definition statement**

This subclass/group covers:
Methods or apparatus not provided for in the groups D02H 1/00 - D02H 9/00, e.g. for cleaning the warp.

**D02H 13/00**

Details of machines of the preceding groups

**Definition statement**

This subclass/group covers:
Details of machines of the groups D02H 1/00 - D02H 11/00.

**D02H 13/02**

Stop motions

**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 | B65H 61/00 |
Warning or safety devices, e.g. stop-motions

**B65H 63/00**

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**D02H 13/12**

Variable-speed driving mechanisms

**Informative references**

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

<table>
<thead>
<tr>
<th>Adjusting or controlling tension in filamentary material in general</th>
<th><strong>B65H 59/00</strong></th>
</tr>
</thead>
</table>

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**D02H 13/16**

Reeds, combs, or other devices for determining the spacing of threads

**Informative references**

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

<table>
<thead>
<tr>
<th>Reeds or beat-up combs in looms</th>
<th><strong>D03D 49/62</strong> or <strong>D03D 49/68</strong></th>
</tr>
</thead>
</table>

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**D02H 13/22**

Tensioning devices

**Informative references**

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

<table>
<thead>
<tr>
<th>Adjusting or controlling tension in filamentary material in general</th>
<th><strong>B65H 59/00</strong></th>
</tr>
</thead>
</table>