D02H
WARPing, Beaming or LEASING

Definition statement
This place covers:
Apparatuses and methods for warping, beaming and leasing of warp yarns in preparation of the weaving process.

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>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 place 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):

References

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 place 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

{Sectional warpers}

Definition statement

This place 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):

**D02H 3/04**

**(Sample warpers)**

**Definition statement**

This place 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 place 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 place 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**

**Limiting references**

*This place 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 place 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 place 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 place covers:
Details of machines of the groups D02H 1/00 - D02H 11/00.

D02H 13/02
Stop motions

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

<table>
<thead>
<tr>
<th>Applications of devices for metering predetermined lengths of running material</th>
<th>B65H 61/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning or safety devices, e.g. stop-motions</td>
<td>B65H 63/00</td>
</tr>
</tbody>
</table>

D02H 13/12
Variable-speed driving mechanisms

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

| Adjusting or controlling tension in filamentary material in general | B65H 59/00 |

D02H 13/16
Reeds, combs, or other devices for determining the spacing of threads

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

| Reeds or beat-up combs in looms | D03D 49/62 or D03D 49/68. |
D02H 13/22

Tensioning devices

References

Informative references

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

| Adjusting or controlling tension in filamentary material in general | B65H 59/00 |