D04C
BRAIDING OR MANUFACTURE OF LACE, INCLUDING BOBBIN-NET OR CARBONISED LACE; BRAIDING MACHINES; BRAID; LACE (machines for making soles from strips of material A43D 29/00; cane working B27J 1/00)

Definition statement
This place covers:
Planar fabric or elongate bulk structure braiding machines. These aspects are covered by the main groups D04C 3/00 and D04C 5/00
Circular braiding machines producing filled or hollow braids. These aspects are covered by the group D04C 3/40
Details of devices incorporated in braiding machines. These aspects are covered by the groups D04C 3/14 - D04C 3/38 and D04C 3/42 - D04C 3/46
Auxiliary devices for use with braiding machines, e.g. mandrels. These aspects are covered by the group D04C 3/48
Hand braiding or lacing equipment. These aspects are covered by the main group D04C 7/00
Braids or laces made by hand or machines, multiple layer fabrics including at least two inter-braided layers. These aspects are covered by the main group D04C 1/00

References
Limiting references
This place does not cover:

| Laminates comprising at least one braided layer whereby the layers are not inter-braided (i.e. not connected by braiding) | B32B 5/00 |

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

| Machines for making soles from strips of material | A43D 29/00 |
| Cane working | B27J 1/00 |

Special rules of classification
Documents should only be classified here if the invention is specifically directed to braids, braiding, lace or lace making. Otherwise the documents should only be classified in the relevant application fields.

In contrast to weaving, braiding in general does not involve warp yarns extending in the lengthwise direction in conjunction with warp interfacing weft yarns always running in a single direction.
D04C 1/00

Braid or lace, e.g. pillow-lace; Processes for the manufacture thereof

Definition statement

This place covers:

- Braiding processes or fabrics and bulk structures with specific details on materials and/or braid structure
- Braids and braiding processes not otherwise provided for

References

Limiting references

This place does not cover:

- Tubular fabrics or endless fabrics (i.e. circular woven products)  
  D03D 3/02 or D03D 3/04

Informative references

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

- Braiding of baskets or cane work  
  B27J 1/02
- Wound or wrapped products or winding processes and machines  
  B65H 81/00

Special rules of classification

In this group, multiple classification is allowed. The classification is desirably complemented by a classification in the indexing scheme D10B 2101/00 - D10B 2509/00 for identifying the thread composition, fabric structure and application field.

Documents also describing braiding machines and devices therefore should additionally be classified in D04C 3/00 or D04C 5/00.

Documents also describing tools or apparatus for braiding or lacing by hand should additionally be classified in D04C 7/00.
D04C 1/02
made from particular materials

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

<table>
<thead>
<tr>
<th>Fibrous reinforcements for composites</th>
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<tr>
<td>B29C 70/22</td>
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Special rules of classification
Illustrative example of subject matter classified in D04C 1/02
D04C 1/06
Braid or lace serving particular purposes

Definition statement
This place covers:
Braids having a braided configuration specifically adapted for the intended purpose.

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

| Reinforcements for plastic composites | B29C 70/24 |
Special rules of classification
Braids of special structure but made from a particular material should be classified only in D04C 1/02.  

D04C 1/08
Tulle fabrics

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

| Twist net made from wires, e.g. for fences | B21F 27/06 |

Special rules of classification
Illustrative example of subject matter classified in D04C 1/08

Documents also describing machines for making tulle fabrics should additionally be classified in D04C 3/00 or D04C 5/00.

D04C 1/10
Pattern tulle fabrics

References
Limiting references
This place does not cover:

| Knitted lace | D04B 1/104, D04B 21/12 |
Special rules of classification
Illustrative example of subject matter classified in D04C 1/10

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

| Pattern tulle fabrics | openwork braids with a predominantly non-uniform arrangement of apertures or distinct yarns. |
D04C 1/12

Cords, lines, or tows

Definition statement
This place covers:

All solid elongated braids in the form of cords, lines or tows having a small but full-cross section, independent from their purpose.

References

Limiting references
This place does not cover:

| Hollow braids or solid bulk braids, e.g. beams | D04C 1/06 |

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

| Ropes or cables in general | D07B |
D04C 3/00
Braiding or lacing machines

Definition statement
This place covers:
Braiding or lacing machines for open work, hollow or bulk-braiding and auxiliary devices.

D04C 3/02
with spool carriers guided by track plates or by bobbin heads exclusively

Special rules of classification
Illustrative example of subject matter classified in D04C 3/02
**D04C 3/40**

for making tubular braids by circulating strand supplies around braiding centre at equal distances

**Special rules of classification**

Illustrative example of subject matter classified in D04C 3/40
Auxiliary devices

Definition statement

This place covers:

Devices for use with braiding machines, e.g. take-up devices, hoops or mandrels.
D04C 5/00
Twist or bobbin-net lace-making machines

Special rules of classification
Illustrative example of subject matter classified in D04C 5/00
D04C 5/06
Machines for making twist-lace fabrics

Special rules of classification
Illustrative example of subject matter classified in D04C 5/06
D04C 7/00
Tools or apparatus for braiding or lacing by hand

Special rules of classification
Illustrative example of subject matter classified in D04C 7/00