

D04C

BRAIDING OR MANUFACTURE OF LACE, INCLUDING BOBBIN-NET OR CARBONISED LACE; BRAIDING MACHINES; BRAID; LACE (machines for making soles from strips of material A43D29/00; cane working B27J1/00)

Definition statement

This subclass/group 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](#) to [D04C 3/38](#) and [D04C 3/42](#) to [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 relevant to classification in this subclass

This subclass/group 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
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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 within this subclass

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 interlacing weft yarns always running in a single direction.

D04C 1/00

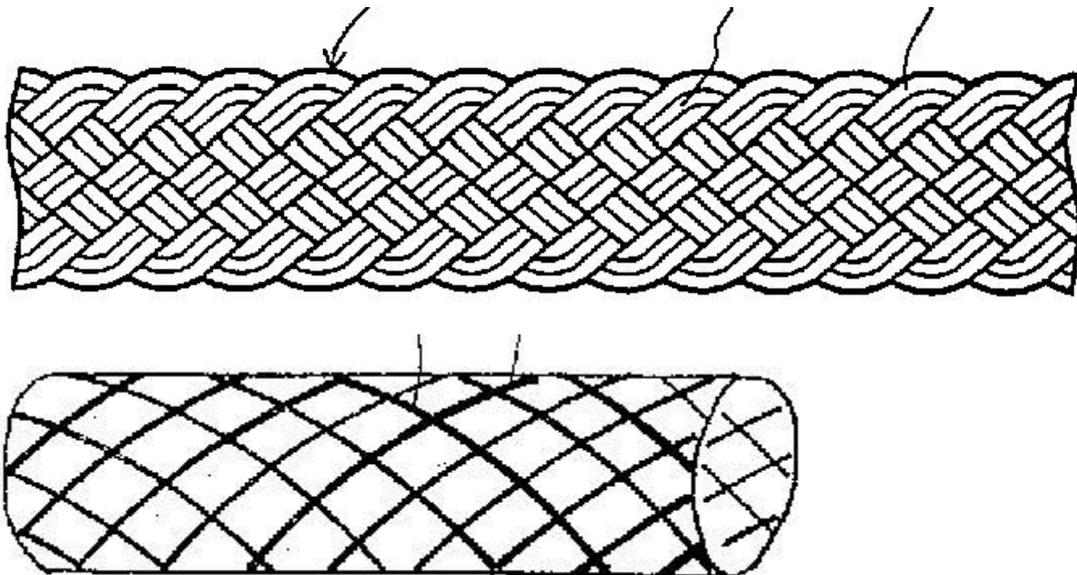
Braid or lace, e.g. pillow-lace; Processes for the manufacture thereof

Definition statement

This subclass/group 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 relevant to classification in this group

This subclass/group does not cover:

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

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

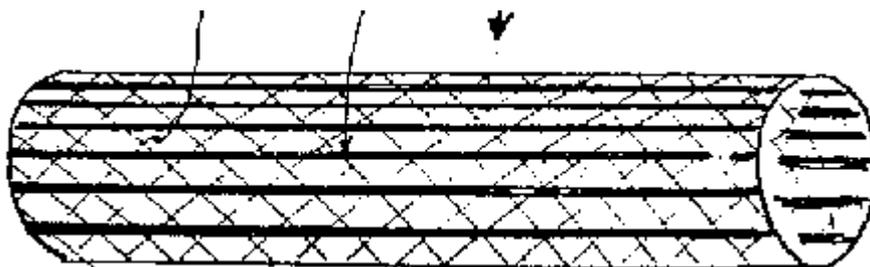
Informative references

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

Fibrous reinforcements for composites	B29C 70/22
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Special rules of classification within this group

Illustrative example of subject matter classified in [D04C 1/02](#)



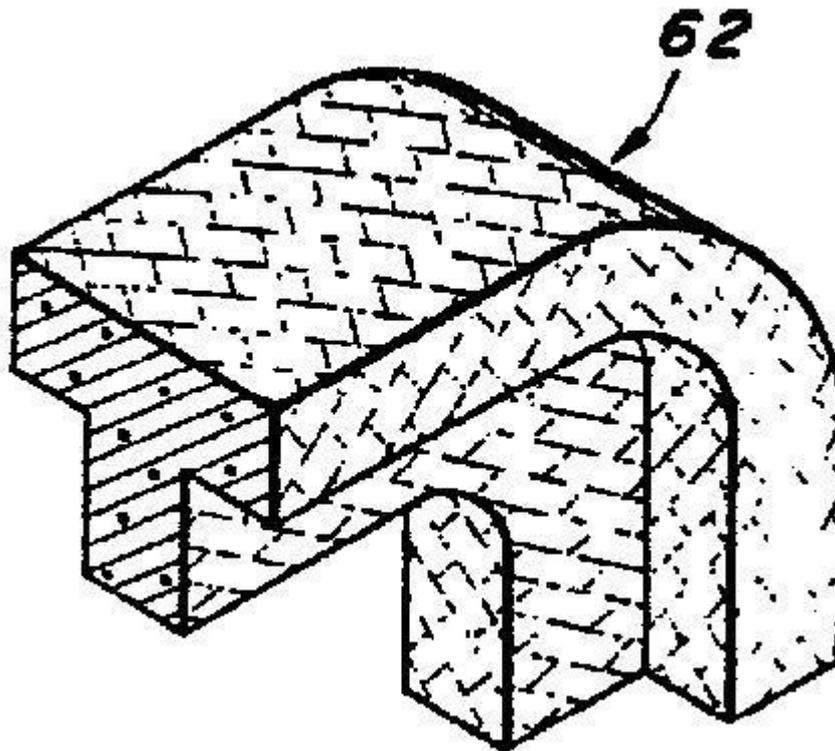
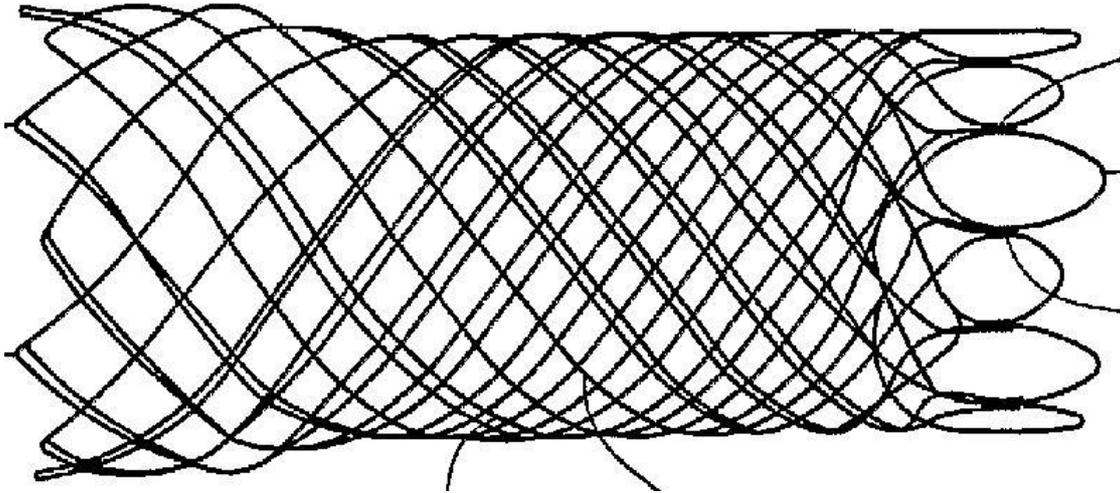
D04C 1/06

Braid or lace serving particular purposes

Definition statement

This subclass/group covers:

Braids having a braided configuration specifically adapted for the intended purpose.



Informative references

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

Reinforcements for plastic composites	B29C 70/24
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Special rules of classification within this group

Braids of special structure but made from a particular material should be classified only in [D04C 1/02](#).

D04C 1/08

Tulle fabrics

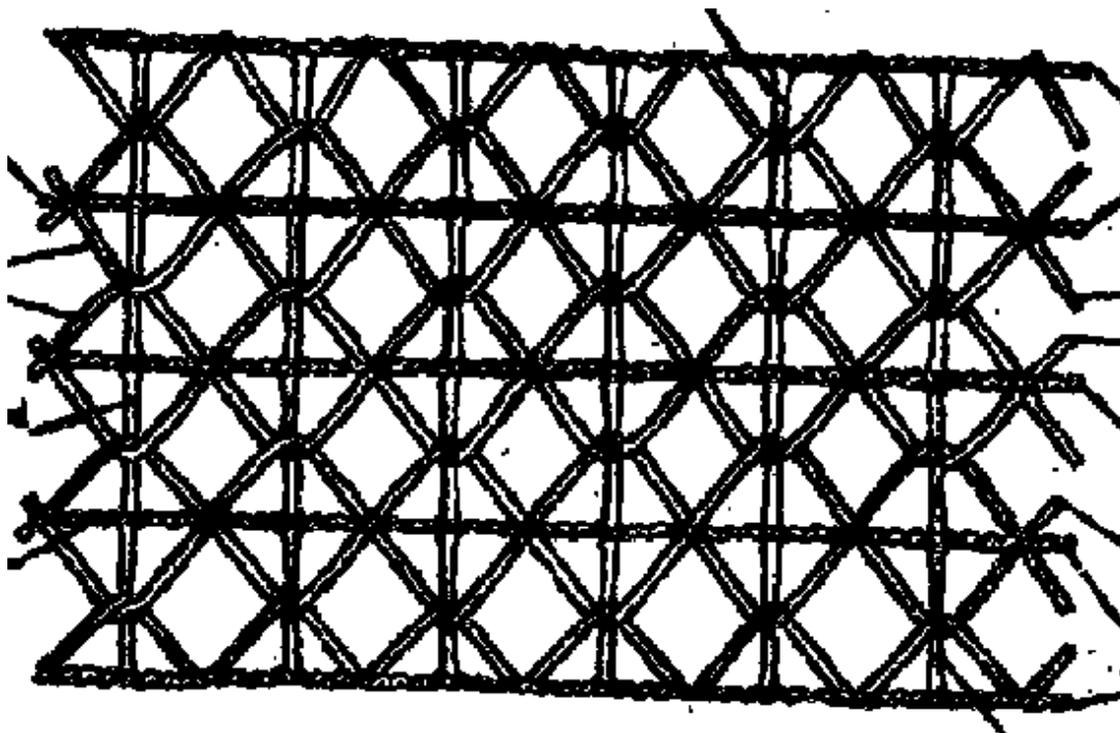
Informative references

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
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Special rules of classification within this group

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

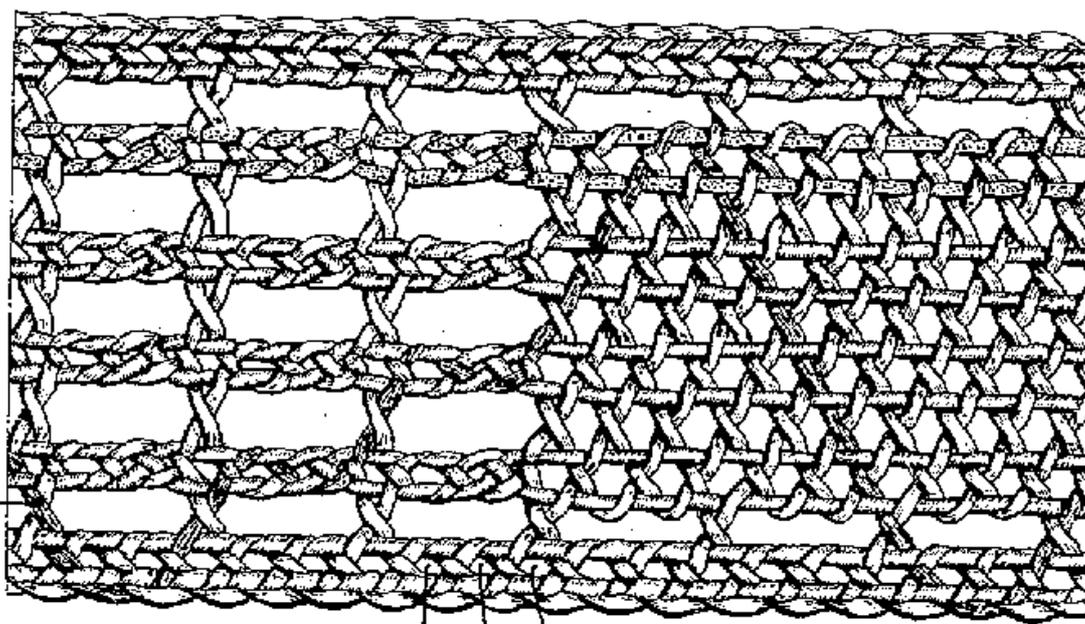
References relevant to classification in this group

This subclass/group does not cover:

Knitted lace	D04B 1/104 , D04B 21/12
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Special rules of classification within this group

Illustrative example of subject matter classified in [D04C 1/10](#)



Glossary of terms

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

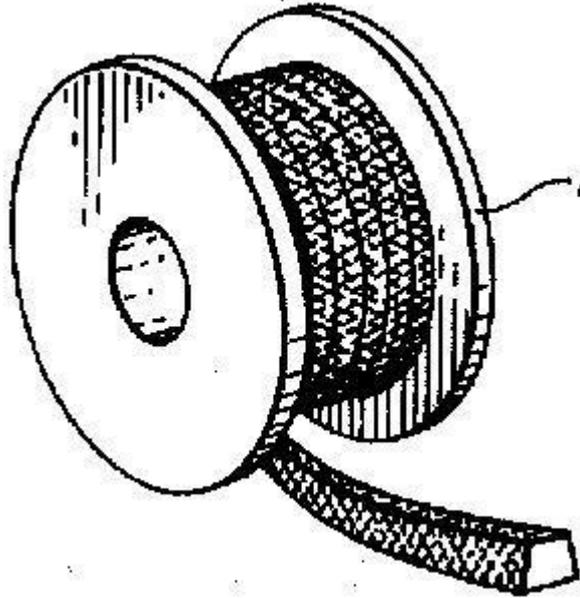
Pattern tulle fabrics	openwork braids with a predominantly non-uniform arrangement of apertures or distinct yarns.
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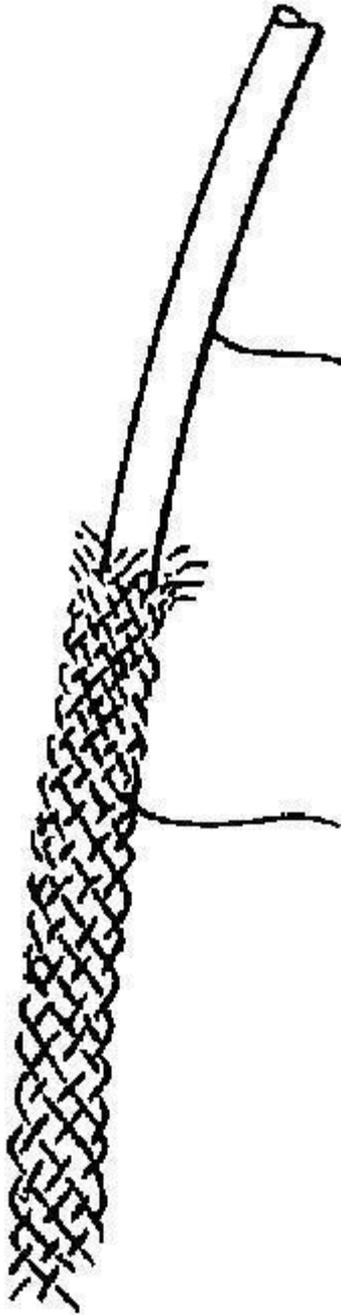
D04C 1/12

Cords, lines, or tows

Definition statement

This subclass/group 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 relevant to classification in this group

This subclass/group does not cover:

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

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

Ropes or cables in general	D07B
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D04C 3/00

Braiding or lacing machines

Definition statement

This subclass/group covers:

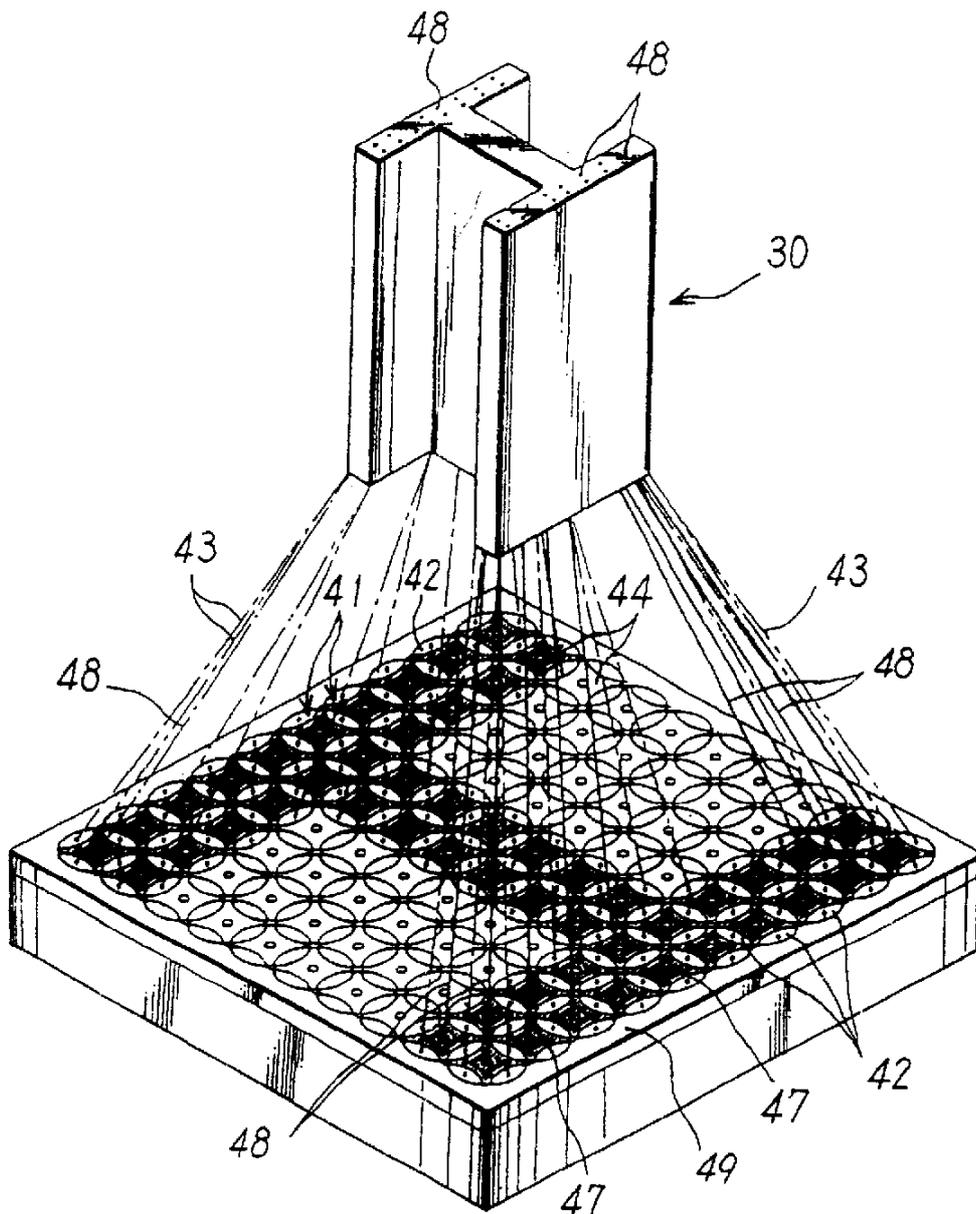
Braiding or lacing machines for open work, hollow or bulk-braiding and auxiliary devices.

D04C 3/02

with spool carriers guided by track plates or by bobbin heads exclusively

Special rules of classification within this group

Illustrative example of subject matter classified in D04C 3/02
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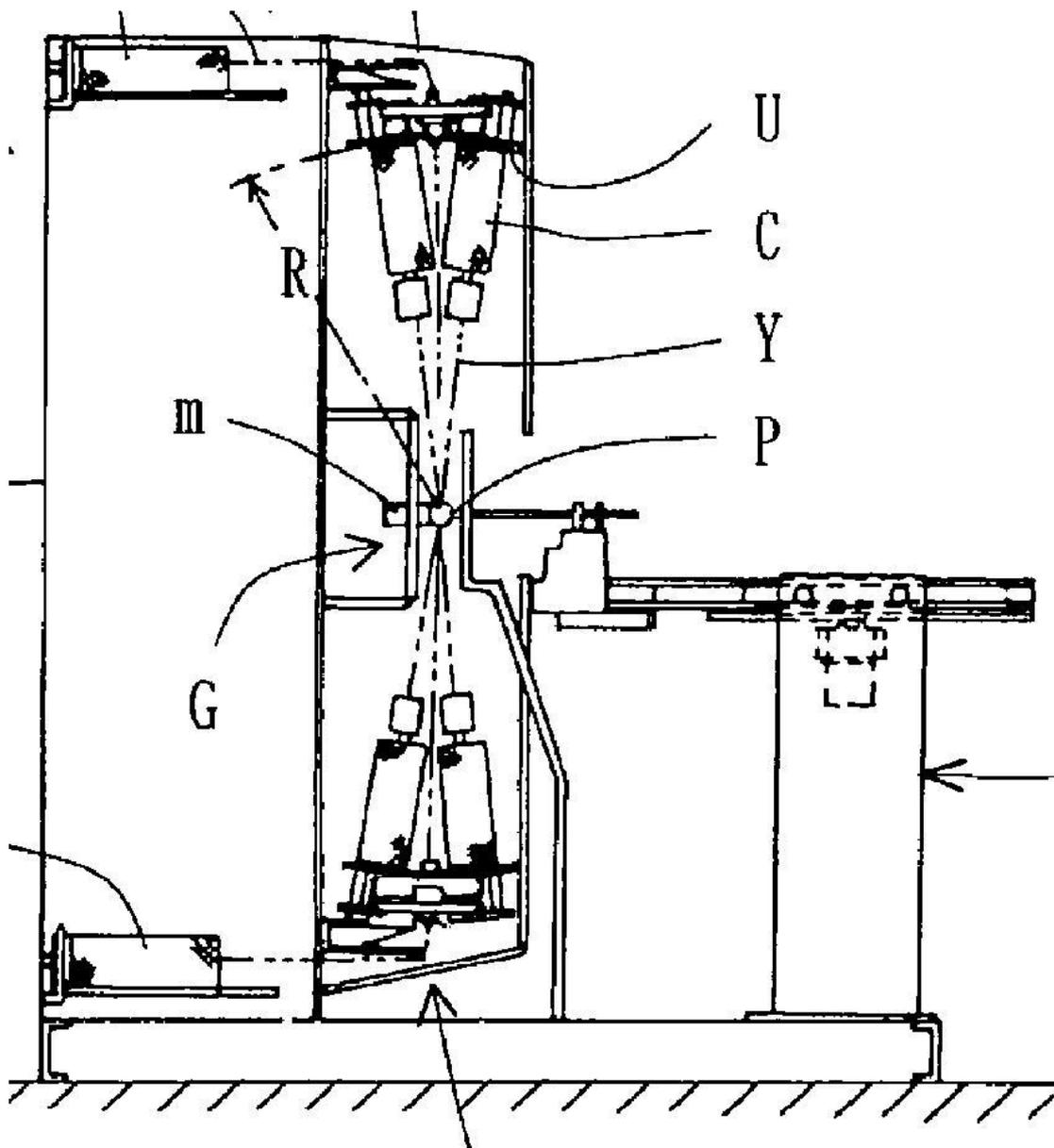


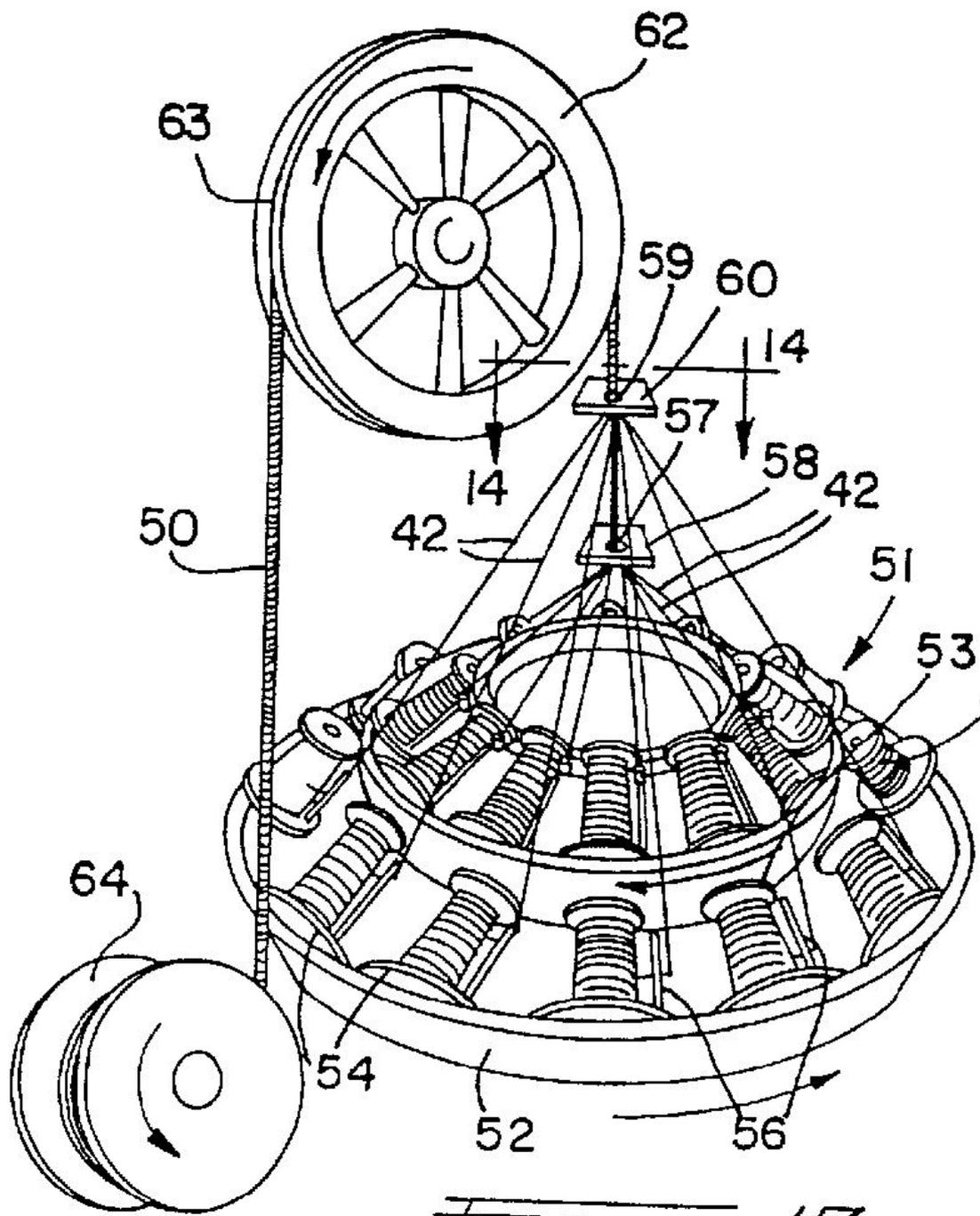
D04C 3/40

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

Special rules of classification within this group

Illustrative example of subject matter classified in [D04C 3/40](#)





D04C 3/48

Auxiliary devices

Definition statement

This subclass/group covers:

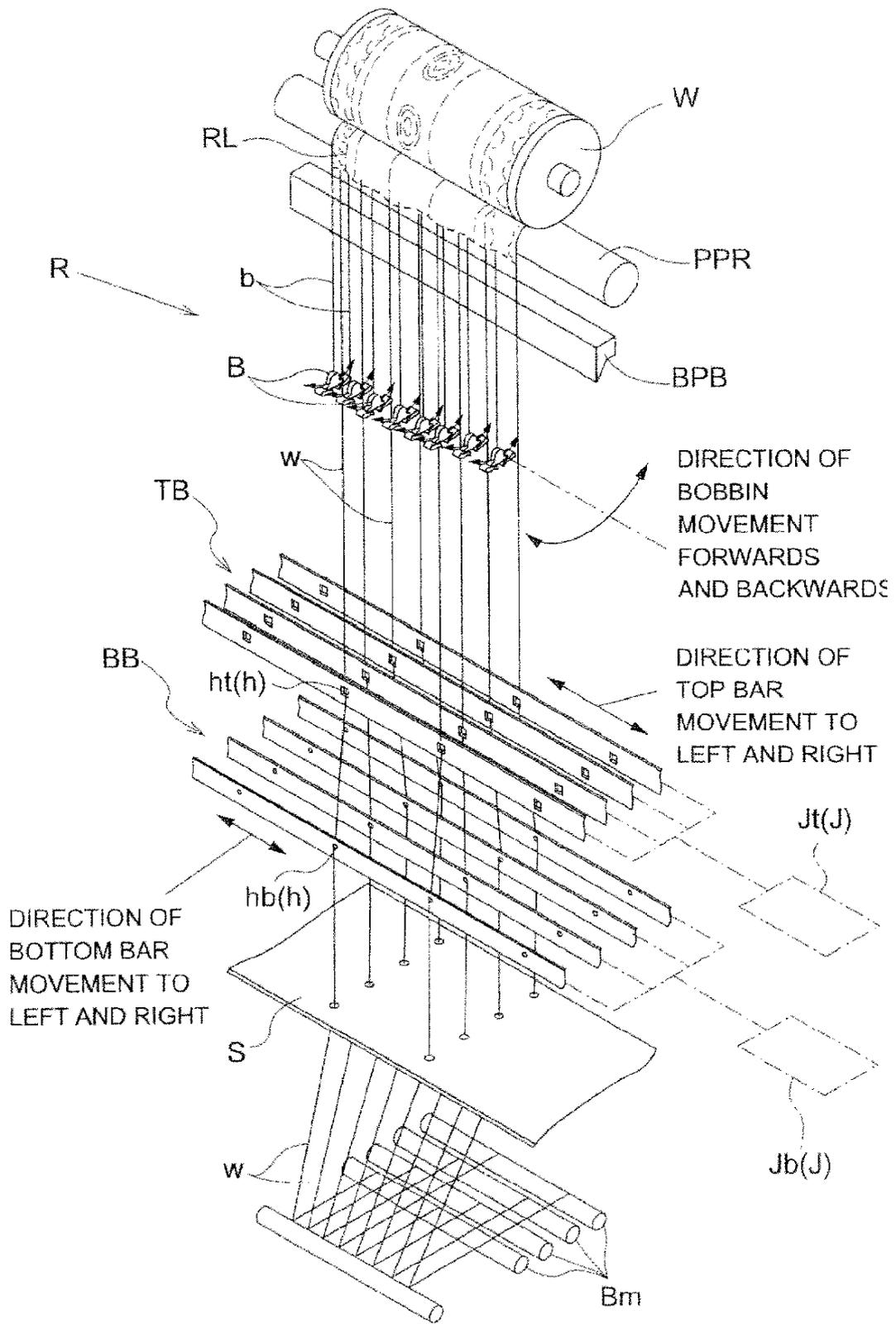
Devices for use with braiding machines, e.g. take-up devices, hoops or mandrels.

D04C 5/00

Twist or bobbin-net lace-making machines

Special rules of classification within this group

Illustrative example of subject matter classified in [D04C 5/00](#)

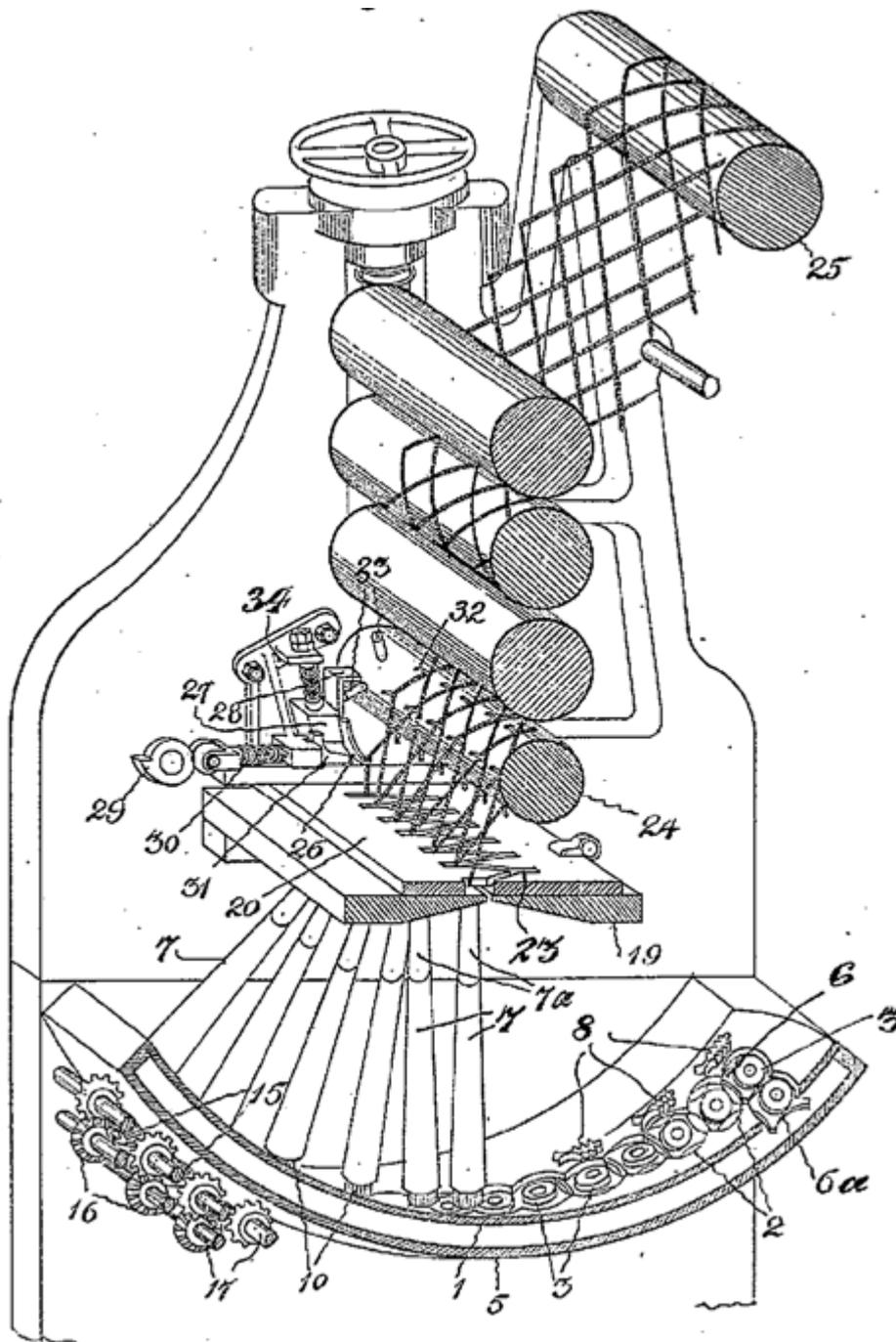


D04C 5/06

Machines for making twist-lace fabrics

Special rules of classification within this group

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 within this group

Illustrative example of subject matter classified in [D04C 7/00](#)

