

B64B

LIGHTER-THAN AIR AIRCRAFT

Definition statement

This place covers:

- Balloons
- Blimps
- Zeppelins

References

Informative references

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

| | |
|--------------------------------------|---|
| Toy balloons | A63H 27/10 |
| Landing gear for aircraft in general | B64C 25/00 |
| Inflatable tents | E04H 15/20 , E04H 15/22 |
| Illuminated balloons | F21V 3/023 |
| Meteorological balloons | G01W 1/08 |

Special rules of classification

Orthogonal Indexing Code [B64B 2201/00](#) is used for hybrid airships.

Glossary of terms

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

| | |
|----------------|--|
| Balloon | Rigid or non-rigid free-flying (no directional control) lighter than air aircraft |
| Blimp | Non-rigid flight controlled lighter than air aircraft |
| Zeppelin | Rigid flight controlled lighter than air aircraft |
| Hybrid airship | Aircraft where lift is produced by both lighter than air compartments and aerodynamic surfaces (wings) |

B64B 1/00

Lighter-than-air aircraft

Definition statement

This place covers:

General lighter-than-air concepts; e.g. hybrid airships.

B64B 1/005**{Arrangements for landing or taking-off, e.g. alighting gear}****Definition statement***This place covers:*

Landing gear for lighter-than-air aircraft.

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

| | |
|--------------------------------------|----------------------------|
| Landing gear for aircraft in general | B64C 25/00 |
|--------------------------------------|----------------------------|

B64B 1/02**Non-rigid airships ([B64B 1/58](#) takes precedence; balloons [B64B 1/40](#))****Definition statement***This place covers:*

Non-conventional balloons, e.g. of non spherical shape.

References**Limiting references***This place does not cover:*

| | |
|--|---------------------------|
| Balloons | B64B 1/40 |
| Arrangements or construction of gas bags | B64B 1/58 |

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

| | |
|----------|---------------------------|
| Balloons | B64B 1/48 |
|----------|---------------------------|

B64B 1/04**the profile being maintained by ties or cords connecting opposite surfaces****Definition statement***This place covers:*

Non-rigid airships in which the contours of the outer covering are maintained by ties or cords connecting opposite inner surfaces of the outer covering

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

| | |
|---|---------------------------|
| Framework construction for rigid airships | B64B 1/08 |
|---|---------------------------|

Special rules of classification

The ties or cords maintain the shape of the inflated airship (note that [B64B 1/02](#) is related to non-rigid airships), i.e. they are essentially in tension to maintain the shape. If the ties/cords connect unsubstantial frame members and are in tension due to the pressure in the inflated airship body, they can also connect frames related to the outer covering.

B64B 1/06

Rigid airships; Semi-rigid airships ([B64B 1/58](#) takes precedence)

Definition statement

This place covers:

- Blimps
- Zeppelins
- Vacuum airships

References

Limiting references

This place does not cover:

| | |
|--|---------------------------|
| Arrangements or construction of gas-bags | B64B 1/58 |
|--|---------------------------|

B64B 1/14

Outer covering

Definition statement

This place covers:

- Construction and materials
- Solar panels attached to the outer covering.

References

Informative references

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

| | |
|--|----------------------|
| Photovoltaic systems for generating electric power | H02S |
|--|----------------------|

B64B 1/18

Attachment to structure

Definition statement

This place covers:

Means for attaching the outer covering to the inner structure.

B64B 1/20

provided with wings or stabilising surfaces {(tail unit construction [B64B 1/10](#); movable control surfaces [B64B 1/12](#))}

Definition statement

This place covers:

Disposition or arrangements of wings or surfaces on the airship.

References**Limiting references**

This place does not cover:

| | |
|--|---------------------------|
| Tail unit construction, e.g. constructional details of fixed tail surfaces | B64B 1/10 |
| Constructional details of movable control surfaces | B64B 1/12 |

B64B 1/32

surrounding hull

Definition statement

This place covers:

Arrangement of propellers in relation to the hull

Relationships with other classification places

Propellers in general are covered by [B64C 11/00](#)

B64B 1/40

Balloons ([B64B 1/58](#) takes precedence; toy balloons [A63H 27/10](#))

Definition statement

This place covers:

Conventional balloons of generally spherical shape where the outer cover serves as gas bag, e.g. traditional hot air balloons.

References**Informative references**

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

| | |
|--------------------------------------|---|
| Toy balloons are covered | A63H 27/10 |
| Inflatable tents are covered | E04H 15/20 , E04H 15/22 |
| Illuminated balloons are covered | F21V 3/023 |
| Meteorological balloons are covered | G01W 1/08 |
| Balloons for advertising are covered | G09F 21/00 |

B64B 1/58**Arrangements or construction of gas-bags; Filling arrangements****Definition statement**

This place covers:

- Materials for balloons
- Systems for filling the balloons
- Constructional features of the gas bags

References**Informative references**

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

| | |
|--|---------------------------|
| Outercovering materials for rigid airships | B64B 1/14 |
|--|---------------------------|

B64B 1/60**Gas-bags surrounded by separate containers of inert gas****Definition statement**

This place covers:

Gas-bags separated by containers of inert gas, e.g. ballonets for altitude control.

B64B 1/66**Mooring attachments****Definition statement**

This place covers:

Arrangements or devices on the airship for mooring.

References**Informative references**

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

| | |
|--|---------------------------|
| Mooring masts for airships or balloons | B64F 1/14 |
|--|---------------------------|