B64B
LIGHTER-TAN 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:

<table>
<thead>
<tr>
<th>Toy balloons</th>
<th>A63H 27/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landing gear for aircraft in general</td>
<td>B64C 25/00</td>
</tr>
<tr>
<td>Inflatable tents</td>
<td>E04H 15/20, E04H 15/22</td>
</tr>
<tr>
<td>Illuminated balloons</td>
<td>F21V 3/023</td>
</tr>
<tr>
<td>Meteorological balloons</td>
<td>G01W 1/08</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balloon</td>
<td>Rigid or non-rigid free-flying (no directional control) lighter than air aircraft</td>
</tr>
<tr>
<td>Blimp</td>
<td>Non-rigid flight controlled lighter than air aircraft</td>
</tr>
<tr>
<td>Zeppelin</td>
<td>Rigid flight controlled lighter than air aircraft</td>
</tr>
<tr>
<td>Hybrid airship</td>
<td>Aircraft where lift is produced by both lighter than air compartments and aerodynamic surfaces (wings)</td>
</tr>
</tbody>
</table>

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:

| Landng 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:

<table>
<thead>
<tr>
<th>Balloons</th>
<th>B64B 1/40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrangements or construction of gas bags</td>
<td>B64B 1/58</td>
</tr>
</tbody>
</table>

*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 1/00

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 |