B31B

MAKING CONTAINERS OF PAPER, CARDBOARD OR MATERIAL WORKED IN A MANNER ANALOGOUS TO PAPER (making wound articles, e.g. wound tubes, B31C; combined making and filling B65B)

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Making wound articles, e.g. wound tubes</th>
<th>B31C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined making and filling</td>
<td>B65B</td>
</tr>
</tbody>
</table>

Informative references

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

<table>
<thead>
<tr>
<th>Filling, or other packaging operations</th>
<th>B65B 1/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging machines incorporating means for making containers</td>
<td>B65B 1/02, B65B 3/02, B65B 5/02, B65B 43/00</td>
</tr>
<tr>
<td>Box and bags</td>
<td>B65D 1/00</td>
</tr>
<tr>
<td>Handling thin material, e.g. sheets, web</td>
<td>B65H 1/00</td>
</tr>
</tbody>
</table>

Special rules of classification

When a document is classified in one of the groups B31B 50/00 - B31B 70/99, it must also be classified completely in the groups by allocating the appropriate Indexing Codes as provided for in B31B 2100/00 - B31B 2170/30 and B31B 2247/00. Classification in B31B 2100/00 - B31B 2170/00 is mandatory.

All aspects disclosed by the documents must be classified (deep-indexing).

Example illustrating deep-indexing:

“A device for forming a multilayered tubular web into flat bags. In one embodiment a handle is formed by punching”.

This document will be given the following classification:

B31B 70/872
B31B 70/874
B31B 2170/20
B31B 2160/10
B31B 2155/003

All relevant information contained in a document must be classified, irrespective its position in the document: description, claims or figures are to be treated with equal importance.
Glossary of terms

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

<table>
<thead>
<tr>
<th>Envelopes or bags</th>
<th>essentially flexible containers, the final shape of which is determined by their contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boxes or cartons</td>
<td>including bags formed similarly to cartons, trays with upstanding side-walls, barrels, tubes and cups, other than articles formed by winding</td>
</tr>
</tbody>
</table>

**B31B 50/00**

Making rigid or semi-rigid containers, e.g. boxes or cartons

**Special rules of classification**

Documents relating to box making must be classified in at least one sub-group of **B31B 50/00** and at least one of the sub-groups of **B31B 2100/00 - B31B 2120/00**

**B31B 50/002**

{Prebreaking}

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Breaking creases to facilitate setting-up boxes in relation to packaging operations</th>
<th>B65B 43/24</th>
</tr>
</thead>
</table>

**B31B 50/004**

{Closing boxes}

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Closing boxes in relation to packaging operations</th>
<th>B65B 7/00</th>
</tr>
</thead>
</table>

**B31B 50/022**

{Holders for feeding or positioning blanks or webs}

**Definition statement**

*This place covers:*

Holders for the work piece.

Holders carrying feeding and guiding means.
B31B 50/04
Feeding sheets or blanks

References

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

| Feeding articles | B65H 5/00 |

B31B 50/12
by air pressure or suction

References

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

| Advancing webs | B65H 20/00 |

B31B 50/14
Cutting, e.g. perforating, punching, slitting or trimming (cutting window openings B31B 50/83)

References

Limiting references
This place does not cover:

| Cutting window openings | B31B 50/83 |

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

| Cutting | B26D 1/00 |
| Means for removing cut-out material or waste | B26D 7/00 |

B31B 50/25
Surface scoring

References

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

| Scoring, creasing not limited to box or bag making | B31F 1/08 |
B31B 50/26
Folding sheets, blanks or webs

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

<table>
<thead>
<tr>
<th>Folding thin material</th>
<th>B65H 45/00</th>
</tr>
</thead>
</table>

B31B 50/28
around mandrels, e.g. for forming bottoms

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

<table>
<thead>
<tr>
<th>Wrapping as packaging operation consisting of folding sheet material around a product</th>
<th>B65B 11/004</th>
</tr>
</thead>
</table>

B31B 50/46
and interconnecting side walls

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

<table>
<thead>
<tr>
<th>Connecting surfaces or edges by interengaging tongues and flaps</th>
<th>B31B 50/732</th>
</tr>
</thead>
</table>

B31B 50/594
{Modifying the shape of tubular boxes or of paper bottle necks}

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

<table>
<thead>
<tr>
<th>Modifying the shape of tubular paper products</th>
<th>B31F 1/008, B31F 7/002</th>
</tr>
</thead>
</table>
B31B 50/61
{Uniting opposed edges by injecting thermoplastic material}

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

| Joining articles by injection moulding | B29C 45/14467 |

B31B 50/76
Opening and distending flattened articles

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

| Opening or setting-up boxes in relation to packaging operations | B65B 43/26 |

B31B 50/81
Forming or attaching accessories, e.g. opening devices, closures or tear strings

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

| Auxiliary devices operating on sheets, blanks, webs, containers, or packages in relation to packaging operations | B65B 61/00 |

B31B 50/812
{Applying tabs, patches, strips or strings on blanks or webs}

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

| Patches or strips having the function of uniting opposed surfaces or edges | B31B 50/60 |
| Applying tear-strips or tear-tape in relation to packaging operations | B65B 61/182 |
B31B 50/8122

{Applying patches}

References

Informative references

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

| Patches having the function of uniting opposed surfaces or edges | B31B 50/60 |

B31B 50/8123

{the blanks remaining stationary during application of the patches}

References

Informative references

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

| Strips having the function of uniting opposed surfaces or edges | B31B 50/60 |

B31B 50/814

{Applying closure elements to blanks, webs or boxes}

References

Informative references

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

| Applying tabs over discharge openings in relation to packaging operations | B65B 61/184 |

B31B 50/84

Forming or attaching means for filling or dispensing contents, e.g. valves or spouts

References

Informative references

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

| Applying or incorporating rigid fittings, e.g. discharge spouts, in relation to packaging operations | B65B 61/186 |
B31B 50/92
Delivering

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

| Delivering sheets or thin material | B65H 23/00 |

B31B 70/00
Making flexible containers, e.g. envelopes or bags

Special rules of classification
Documents relating to bag making must be classified in at least one subgroup of B31B 70/00 and in at least one of the subgroups of B31B 2150/00 - B31B 2170/00.

B31B 70/003
{Opening or distending bags}

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

| Opening or setting-up bags in relation to packaging operations | B65B 43/26 |

B31B 70/004
{Closing bags}

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

| Closing bags in relation to packaging operations | B65B 7/00 |

B31B 70/008
{Stiffening or reinforcing (B31B 70/876 takes precedence)}

References
Limiting references
This place does not cover:

| Reinforcing by applying patches or by folding in connection with forming or mounting handles | B31B 70/876 |
**B31B 70/04**

Feeding sheets or blanks

**References**

*Informative references*

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

| Feeding articles  | B65H 5/00 |

**B31B 70/10**

Feeding or positioning webs

**References**

*Informative references*

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

| Advancing webs  | B65H 20/00 |

**B31B 70/14**

Cutting, e.g. perforating, punching, slitting or trimming (cutting window openings **B31B 70/83**)

**References**

*Limiting references*

This place does not cover:

| Cutting window openings  | B31B 70/83 |

*Informative references*

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

| Cutting or punching in connection with the forming or mounting of handles  | B31B 70/874 |
| Cutting  | B26D |
| Means for removing cut-out material or waste  | B26D 7/18 |

**B31B 70/25**

{Surface scoring}

**References**

*Informative references*

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

| Scoring, creasing not limited to box or bag making  | B31F 1/08 |
B31B 70/26
Folding sheets, blanks or webs

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

| Folding thin material | B65H 45/00 |

B31B 70/812
{Applying patches, strips or strings on sheets or webs}

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

| Patches as reinforcement for handles | B31B 70/876 |
| Applying tear-strips or tear-tape in relation to packaging operations | B65B 61/182 |

B31B 70/813
{Applying closures}

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

| Applying tabs over discharge openings in relation to packaging operations | B65B 61/184 |

B31B 70/8131
{Making bags having interengaging closure elements}

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

| Applying or incorporating profile-strips, e.g. for reclosable bags, in relation to packaging operations | B65B 61/188 |
B31B 70/8132

{Applying the closure elements in the machine direction}

Glossary of terms

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine direction</td>
<td>indicates the main direction of transport of the sheets or webs</td>
</tr>
<tr>
<td>through the machine</td>
<td></td>
</tr>
</tbody>
</table>

B31B 70/8133

{Applying the closure elements in the cross direction}

Glossary of terms

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross direction</td>
<td>indicates a direction perpendicular to the main direction of transport</td>
</tr>
<tr>
<td></td>
<td>or the sheets of webs through the machine</td>
</tr>
</tbody>
</table>

B31B 70/8135

{the strings being applied in the machine direction}

Glossary of terms

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine direction</td>
<td>indicates the main direction of transport of the sheets or webs</td>
</tr>
<tr>
<td>through the machine</td>
<td></td>
</tr>
</tbody>
</table>

B31B 70/8136

{the strings being applied in the cross direction}

Glossary of terms

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross direction</td>
<td>indicates a direction perpendicular to the main direction of transport</td>
</tr>
<tr>
<td></td>
<td>or the sheets of webs through the machine</td>
</tr>
</tbody>
</table>

B31B 70/84

Forming or attaching means for filling or dispensing contents, e.g. valves or spouts

References

Informative references

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applying or incorporating</td>
<td>rigid fittings, e.g. discharge spouts in relation to packaging operations</td>
</tr>
<tr>
<td>B65B 61/186</td>
<td></td>
</tr>
</tbody>
</table>
B31B 70/86
Forming integral handles or mounting separate handles

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

| Making separate handles | B31D 1/06 |

B31B 70/92
Delivering

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

| Delivering sheet or web material in general | B65H 23/00 |

B31B 2100/00
Rigid or semi-rigid containers made by folding single-piece sheets, blanks or webs

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

| Making boxes in relation with packaging operations | B65B 3/025, B65B 43/08 |

B31B 2150/00
Flexible containers made from sheets or blanks, e.g. from flattened tubes

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

| Making bags having multilayered walls from webs | B31B 2170/20 |
| Forming bags from single sheets in relation with packaging operations | B65B 43/02 |
**B31B 2155/00**

Flexible containers made from webs

**References**

*Informative references*

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

| B65B 43/04 |
| Forming bags from webs in relation with packaging operations |

**B31B 2155/002**

{by joining superimposed webs, e.g. with separate bottom webs}

**References**

*Informative references*

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

| B65B 43/06 |
| Forming bags from several webs in relation with packaging operations |

**B31B 2241/008**

Making suction cleaner bags

**References**

*Informative references*

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

| A47L 9/14 |
| Suction cleaner bags |