

B31B

MAKING BOXES, CARTONS, ENVELOPES OR BAGS (incising, scoring, in general [B26D 3/08](#); combined making and filling [B65B](#))

Informative references

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

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

Special rules of classification within this subclass

When a document is classified in one of the classes [B31B 1/00](#) to [B31B 49/04](#) it must also be classified completely in the groups by allocating the appropriate deep Indexing Codes as provided for in [B31B 2201/00](#) to [B31B 2247/00](#). Classification in [B31B 2201/00](#) to [B31B 2247/00](#) 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 23/00](#)

[B31B 2219/909](#)

[B31B 2219/9093](#)

[B31B 2237/05](#)

[B31B 2237/10](#)

[B31B 2237/60](#)

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

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

B31B 1/00

Box, carton, envelope or bag making machinery characterised by performing specific operations (machinery for performing operations of general application, see the appropriate subclasses)

Special rules of classification within this group

Classify also at least in [B31B 2201/00](#) to [B31B 2201/95](#)

B31B 3/00

Machinery characterised by making boxes or cartons by folding single-piece sheets, blanks, or webs ([B31B 5/00](#) takes precedence)

Special rules of classification within this group

Classify also at least in [B31B 2203/00](#) to [B31B 2203/108](#)

B31B 5/00

Machinery characterised by making boxes or cartons by folding single-piece sheets which can be set-up from a collapsed condition, including setting-up and recollapsing to break creases

Special rules of classification within this group

Classify also at least in [B31B 2203/003](#)

B31B 7/00

Machinery characterised by making lined or internally-reinforced boxes or cartons ([B31B 11/00](#) takes precedence)

Special rules of classification within this group

Classify also at least in [B31B 2217/0038](#) to [B31B 2217/0076](#)

B31B 9/00

Machinery characterised by making boxes or cartons having shouldered walls [N: not used, see [B31B 3/00](#), e.g. **B31B3/46G**]

B31B 11/00

Machinery characterised by making boxes or cartons having partitions or like inserts not integral with walls (making partitions, inserts, or reinforcements for boxes or cartons [B31D](#))

Special rules of classification within this group

Classify also at least in [B31B 2203/10](#) to [B31B 2203/108](#) or in [B31B 2217/10](#) to [B31B 2217/108](#)

B31B 13/00

Machinery characterised by assembling drawer-and-shell boxes or cartons

Special rules of classification within this group

Classify also at least in [B31B 2217/0092](#)

B31B 15/00

Machinery characterised by making covered or externally-reinforced boxes or cartons [N: ([B31B 7/00](#) takes precedence)]

Special rules of classification within this group

Classify also at least in [B31B 2217/003](#) to [B31B 2217/003](#)

B31B 17/00

Machinery characterised by making other boxes or cartons by assembling several separate sheets, blanks, or webs

Special rules of classification within this group

Classify also at least in [B31B 2217/00](#) to [B31B 2217/108](#)

B31B 19/00

Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents ([B31B 21/00](#), [B31B 23/00](#) take precedence) [N: group [B31B 21/00](#) is not used]

Special rules of classification within this group

Classify also at least in [B31B 2221/10](#) to [B31B 2221/107](#) or in [B31B 2237/10](#)

B31B 23/00

Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents, from webs, e.g. from flattened tubular webs (machinery characterised by cutting sheets or blanks from webs and working them to form such envelopes or bags [B31B 21/00](#); [N: [B31B 21/00](#) is not used, see [B31B 19/00](#)])

B31B 25/00

Machinery characterised by making pointed or tapered envelopes or bags

B31B 27/00

Machinery characterised by making interconnected envelopes or bags [N: ([B31B25/00B](#) takes precedence)]

B31B 29/00

Machinery characterised by making envelopes or bags with structural provision at the base for thickness or contents

B31B31/00 to **B31B 37/00** take precedence; [N:**B31B31/00**, **B31B33/00**, **B31B35/00** are not used, **B31B39/00C** takes precedence])

Special rules of classification within this group

Classify also at least in [B31B 2221/20](#)

B31B 31/00

Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents from sheets or blanks, e.g. from flattened tubes (**B31B33/00**, **B31B35/00** take precedence) [N: not used, see [B31B 29/00](#)]

B31B 33/00

Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents from sheets or blanks, e.g. from flattened tubes, the longitudinal axes of the envelopes or bags being parallel to the direction in which the sheets or blanks are fed [N: not used, see [B31B 29/00](#)]

B31B 35/00

Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents from sheets or blanks, e.g. from flattened tubes, the longitudinal axes of the envelopes or bags being perpendicular to the direction in which the sheets or blanks are fed [N: not used, see [B31B 29/00](#)]

B31B 37/00

Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents from webs, e.g. from tubular webs (machinery characterised by cutting sheets and blanks from webs and working them to form such envelopes or bags **B31B31/00**; [N: group **B31B31/00** is not used, see [B31B 29/00](#); **B31B39/00C** takes precedence])

B31B 39/00

Machinery characterised by making lined envelopes or bags [N: (**B31B19/00K6** takes precedence)]

B31B 41/00

Machinery characterised by making envelopes or bags of other specific form or construction [N: i.e. not particularly otherwise provided for]

B31B 43/00

Machinery characterised by making containers by shaping, other- wise than folding, sheet material under pressure

Special rules of classification within this group

Classify also at least in [B31B 2201/22](#) to [B31B 2201/226](#)

B31B 45/00

Machinery characterised by making containers having corrugated or pleated walls

Special rules of classification within this group

Classify also at least in [B31B 2201/2695](#)

B31B 47/00

Hand tools for making envelopes, bags, boxes or cartons

Special rules of classification within this group

Classify also at least in [B31B 2247/00](#)

B31B 49/00

Machinery, accessories or processes not provided for in [B31B 1/00](#) to [B31B 47/00](#) (forms or constructions of boxes, cartons, envelopes or bags [B65D](#))

Special rules of classification within this group

Classify also at least in [B31B 2201/00](#) or [B31B 2219/00](#)

B31B 2201/00

Specific operations carried out during box making

Special rules of classification within this group

Documents relating to box making must be classified in at least one sub-group of [B31B 2201/00](#) and at least one of the sub-groups of [B31B 2203/00](#) to [B31B 2217/00](#)

B31B 2201/0205

Feeding or positioning webs

Informative references

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

Advancing webs	B65H 20/00
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B31B 2201/0235

Feeding or positioning blanks

Informative references

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

Feeding articles	B65H 5/00
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B31B 2201/0288

Holders for feeding or positioning blanks or webs

Definition statement

This subclass/group covers:

Holders for the work piece.

Holders carrying feeding and guiding means.

B31B 2201/14

Cutting, perforating, punching, slitting, trimming

References relevant to classification in this group

This subclass/group does not cover:

Cutting window openings	B31B 2201/908
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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 2201/226

Modifying the shape of tubular boxes, of paper bottle necks

Informative references

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

Modifying the shape of tubular paper products	B31F 1/008 , B31F 7/002
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B31B 2201/24

Prebreaking

Informative references

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

Breaking creases to facilitate setting-up boxes in relation to packaging operations	B65B 43/24
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B31B 2201/25

Surface scoring

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
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B31B 2201/26

Folding blanks or webs

Informative references

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

Folding thin material Folding thin material	B65H 45/00
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B31B 2201/2604

around mandrels

Informative references

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

Wrapping as packaging operation consisting of folding sheet material around a product	B65B 11/004
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B31B 2201/2666

involving interconnecting side walls

Informative references

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

Connecting surfaces or edges by interengaging tongues and flaps	B31B 2201/6091
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B31B 2201/28

Opening or distending flattened boxes

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
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B31B 2201/29

Closing boxes

Informative references

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

Closing boxes in relation to packaging operations	B65B 7/00
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B31B 2201/6004

by injecting of thermoplastic material for uniting opposed edges

Informative references

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

Joining articles by injection moulding	B29C 45/14467
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B31B 2201/90

Forming or attaching accessories

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
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B31B 2201/9009

Applying tabs, patches, strips or strings on blanks or webs

References relevant to classification in this group

This subclass/group does not cover:

Patches or strips having the function of uniting opposed surfaces or edges	B31B 2201/60
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Informative references

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

Applying tear-strips or tear-tape in relation to packaging operations	B65B 61/182
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B31B 2201/9019

Applying patches

References relevant to classification in this group

This subclass/group does not cover:

Patches having the function of uniting opposed surfaces or edges	B31B 2201/60
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B31B 2201/9033

Applying strips or strings, e.g. tear strips or strings

References relevant to classification in this group

This subclass/group does not cover:

Strips having the function of uniting opposed surfaces or edges	B31B 2201/60
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B31B 2201/9061

Applying closure elements to blanks, webs or boxes

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	B65B 61/184
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operations	
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B31B 2201/9085

Forming valves or applying valve inserts, e.g. rigid valves, spouts, filling tubes

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
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B31B 2201/92

Delivering

Informative references

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

Delivering sheets or thin material	B65H 23/00
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B31B 2203/00

Making boxes by folding single-piece blanks, or webs

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
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B31B 2219/00

Specific operations carried out during bag making

Special rules of classification within this group

Documents relating to bag making must be classified in at least one sub-group of [B31B 2219/00](#) and at least one sub-groups of [B31B 2221/00](#) to [B31B 2237/00](#)

B31B 2219/022

Feeding or positioning webs

Informative references

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

Advancing webs	B65H 20/00
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B31B 2219/024

Feeding or positioning sheets

Informative references

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

Feeding articles	B65H 5/00
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B31B 2219/14

Cutting, perforating, punching, slitting, trimming

References relevant to classification in this group

This subclass/group does not cover:

Cutting window openings	B31B 2219/9048
Cutting or punching in connection with the forming or mounting of handles	L31B219/90K2B

Informative references

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

Cutting	B26D
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Means for removing cut-out material or waste	B26D 7/18
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B31B 2219/23

Stiffening, reinforcing bags

References relevant to classification in this group

This subclass/group does not cover:

Reinforcing by applying patches or by folding in connection with forming or mounting handles	B31B 2219/9096
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B31B 2219/25

Surface scoring

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
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B31B 2219/26

Folding sheets or webs

Informative references

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

Folding thin material	B65H 45/00
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B31B 2219/28

Opening or distending bags

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
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B31B 2219/29

Closing bags

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
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B31B 2219/9003

Applying patches, strips or strings on sheets or webs

References relevant to classification in this group

This subclass/group does not cover:

Patches as reinforcement for handles	L31B219/74K2B
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Informative references

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

Applying tear-strips or tear-tape in relation to packaging operations	B65B 61/182
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B31B 2219/9012

Applying closure elements

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	B65B 61/184
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operations	
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B31B 2219/9016

Making bags having interengaging closure elements

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
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B31B 2219/9019

Applying the closure elements in the machine direction

Glossary of terms

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

Machine direction	indicates the main direction of transport of the sheets or webs through the machine
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B31B 2219/9022

Applying the closure elements in the cross direction

Glossary of terms

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

Cross direction	indicates a direction perpendicular to the main direction of transport or the sheets of webs through the machine
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B31B 2219/9029

the strings being applied in the machine direction

Glossary of terms

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

Machine direction	indicates the main direction of transport of the sheets or webs through the machine
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B31B 2219/9032

the strings being applied in the cross direction

Glossary of terms

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

Cross direction	indicates a direction perpendicular to the main direction of transport of the sheets or webs through the machine
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B31B 2219/9051

Forming valves or applying valve inserts

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
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B31B 2219/9074

Forming integral handles or mounting separate handles

Informative references

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

Making separate handles	B31D 1/06
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B31B 2219/92

Delivering

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
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B31B 2221/00

Making bags from sheets

Informative references

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

Forming bags from single sheets in relation with packaging operations	B65B 43/02
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B31B 2221/05

the bags having multilayered walls, e.g. lined or laminated

Informative references

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

Making bags having multilayered walls from webs	B31B 2237/05
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B31B 2237/00

Making bags from webs

Informative references

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

Forming bags from webs in relation	B65B 43/04
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with packaging operations	
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B31B 2237/50

involving joining superimposed webs, e.g. with separate bottom webs

Informative references

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

Forming bags from several webs in relation with packaging operations	B65B 43/06
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B31B 2241/00

Making bags or boxes intended for a specific use

Special rules of classification within this group

Document classified in these groups must be also classified in the relevant groups from [B31B 2201/00](#) to [B31B 2237/00](#) and relevant product classes (e.g [B65D 1/00](#))

B31B 2241/008

Making suction cleaner bags

Informative references

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

Suction cleaner bags	A47L 9/14
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B31B 2247/00

Manual operations or hand tools for making bags or boxes

Special rules of classification within this group

Documents classified in this group must also be classified in the relevant groups of [B31B 2201/00](#) to [B31B 2241/00](#)

