

B65B

MACHINES, APPARATUS OR DEVICES FOR, OR METHODS OF, PACKAGING ARTICLES OR MATERIALS; UNPACKING (bundling and pressing devices for cigars [A24C 1/44](#); paper-bag holders as shop or office accessories [A47F 13/08](#); apparatus for coating, e.g. by dipping, [B05C](#); devices for tensioning and securing binders adapted to be supported by the article or articles to be bound [B25B](#), [B65B 13/00](#); nailing or stapling devices per se [B25C](#), [B27F](#); {cutting or severing in general [B26D](#), [B26F](#);} inserting documents in envelopes and closing the latter [B43M 3/00](#), [B43M 5/00](#); wrappers, containers or other packaging elements, e.g. binders protective caps [B65D](#); stacking articles in, or removing them from, pallets [B65G](#); devices for handling sheets or webs of interest apart from their application in packaging machines [B65H](#); packaging of matches [C06F](#); wrapping sugar during manufacture [C13B 45/00](#); {filling of grease guns [F16N 37/02](#); packing of shotgun cartridges for immediate use [F42B](#); wrapping of coins [G07D 9/00](#)}; making containers or receptacles per se, see the appropriate subclasses)

Definition statement

This place covers:

The following general guidance can be applied in this subclass:

Main groups [B65B 1/00-B65B 17/00](#) relate to general aspects of packaging, wrapping, bundling and closing of packages.

Main groups [B65B 19/00-B65B 29/00](#) relate to the packaging, wrapping or bundling of articles/materials with special problems.

Main group [B65B 31/00](#) relates to the packaging under special atmospheric conditions.

Main group [B65B 33/00](#) relates to packaging by applying removable/strippable coatings.

Main groups [B65B 35/00-B65B 39/00](#) relate to the feeding of material to be packaged.

Main groups [B65B 41/00-B65B 45/00](#) relate to the feeding/supporting of the wrapping material/container.

Main groups [B65B 47/00-B65B 53/00](#) and [B65B 61/00](#) relate to operations performed on the wrapping material/container.

Main group [B65B 63/00](#) relates to auxiliary operations performed on the article/material to be packaged.

Main group [B65B 55/00](#) relates to preserving/sterilising.

Main groups [B65B 57/00-B65B 59/00](#) and [B65B 65/00](#) relates to the control/adaptation/details of the packaging machine.

Main group [B65B 67/00](#) relates to manual packaging.

Main group [B65B 69/00](#) relates to unpacking.

References

Limiting references

This place does not cover:

Operations of these types employed in the manufacture of articles other than packages are classified in other appropriate subclasses, e. g. making confectionery products by casting in moulds formed by wrappers	A23G
Methods of packaging which are wholly characterised by the form of the package produced, or the form of the container or packaging-element utilised	B65D
Filling ammunition cartridges	F42B

Special rules of classification

In subclass [B65B](#) all embodiments of a document and all aspects of that embodiment are to be classified, irrespective of it being subject-matter of a claim or not.

Classification is done in the lowest subgroup that applies. If several subgroups apply equally, for example for various embodiments of a document, the document is classified in all of those subgroups, but not collectively in the higher ranking group, unless the higher group is the only group that applies for a particular embodiment.

Characteristics merely mentioned in the description as possible embodiments but not allowing complete understanding of its implementation are classified as additional information. For example, in the following disclosure:

"The seal head which has been described in detail in this application is also applicable to vertical form fill seal machines as known from the prior art."

-the seal head should be classified as invention information and the vertical form fill seal machine as additional information.

Similarly, features identifiable from the drawings but not described in the description should be classified as additional information.

Glossary of terms

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

Packaging	Should be understood as including mainly the following operations: - Filling portable containers or receptacles with materials or small articles to form packages; - inserting articles, or groups of articles, into containers or receptacles; - closing filled containers or receptacles otherwise than by metal-, glass-, or wood-working operations; - enclosing, or partially enclosing, articles or quantities of material, in sheets, strips, blanks, webs, or tubes of thin flexible material, e.g. wrapping; - bundling articles, e.g. holding articles together in groups by applying string or wire;- attaching articles to cards, sheets, or webs.
Package	Is used to mean the end product of a packaging operation, e.g. a filled and closed container, an article enclosed in a wrapper, a group of articles held together by string or wire, a crate of bottles.
Materials	Is to be understood as embracing matter, or masses of articles, which are to be packaged, as distinct from separate or individual articles.

B65B 1/00

Packaging fluent solid material, e.g. powders, granular or loose fibrous material, loose masses of small articles, in individual containers or receptacles, e.g. bags, sacks, boxes, cartons, cans jars (under special atmospheric or gaseous conditions [B65B 31/00](#))

References

Informative references

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

Packaging liquids	B65B 3/00
Packaging articles	B65B 5/00
Packaging materials presenting special problems	B65B 29/00

B65B 1/02

Machines characterised by the incorporation of means for making the containers or receptacles (from flat, folded, or tubular webs of flexible sheet material [B65B 9/00](#); making containers or receptacles of interest apart from this application, see appropriate subclasses)

Definition statement

This place covers:

Machines incorporating means for making the containers or receptacles from flat, folded, or tubular webs of flexible sheet material, but which containers or receptacles are separated from the web before being filled

References

Informative references

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

Making boxes or bags independently from packaging operations see the relevant groups of	B31B and its Indexing Codes
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B65B 1/32

by weighing (check-weighing of filled containers or receptacles [B65B 1/46](#); weighing in general [G01G](#))

References

Informative references

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

Separating measured quantities from supply by weighing	B65B 37/18
Weighing of cut products	B26D 7/30

B65B 1/36

by volumetric devices or methods (checking volume of filled material [B65B 1/48](#); volumetric measurement in general [G01F](#))

References**Informative references**

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

Separating measured quantities from supply by volume measurement	B65B 37/20
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B65B 3/00

Packaging plastic material, semi-liquids, liquids, or mixed solids and liquids, in individual containers or receptacles, e.g. bags, sacks, boxes, cartons, cans, jars (packaging under special atmospheric or gaseous conditions, adding propellants to aerosol containers [B65B 31/00](#); filling bottles or other containers with liquids or semi-liquids by bottling machines [B67C](#); filling of gas bottles at high pressure for storing gases [F17C](#))

References**Limiting references**

This place does not cover:

Filling fuel into fuel tanks	B67D 7/00
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Informative references

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

Packaging powders	B65B 1/00
Packaging articles	B65B 5/00

B65B 3/003

{Filling medical containers such as ampoules, vials, syringes or the like}

Definition statement

This place covers:

Filling of medical containers with semi-liquids, liquids, mixed solids and liquids and fluidised powder.

References**Limiting references**

This place does not cover:

Filling of medical capsules	A61J 3/074
Filling of syringes in situ	A61M 5/1782

Informative references

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

Sealing filled ampoules	B65B 7/161
Applying plugs/stoppers to filled syringes	B65B 7/2821
Assembling of medical capsules	A61J
Fraction collection sampling	G01N 1/18

B65B 3/02

Machines characterised by the incorporation of means for making the containers or receptacles (making containers or receptacles of interest apart from this application, see appropriate subclasses)

References**Informative references**

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

Making boxes or bags independently from packaging operations see the relevant groups of	B31B and its Indexing Codes
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B65B 3/022

{Making containers by moulding of a thermoplastic material}

References**Informative references**

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

For blow moulding preforms by hot liquids that remain in the finished container see also the indexing scheme of	B29C 49/46
Moulds for blow-moulding	B29C 49/48

B65B 3/025

{Making parallelepipedal containers from a single carton blank}

References**Informative references**

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

Forming three-dimensional containers from sheet material by folding	B65B 43/10
Making boxes independently from packaging operations see the relevant groups of	B31B , B31B 2100/00

B65B 3/027**{Making containers from separate body and end-parts}****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Making containers independently from packaging operations see the relevant groups of	B31B , B31B 2105/00
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B65B 3/04**Methods of, or means for, filling the material into the containers or receptacles****Definition statement***This place covers:*

Methods of, or means for filling the material into individual containers or receptacles and interconnected bags.

B65B 3/22**Defoaming liquids in connection with filling****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Foam dispersion or prevention	B01D 19/02
Preventing foaming in bottles	B67C

B65B 3/24**Topping-up containers or receptacles to ensure complete filling****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Head space air removing device	B67C 3/222
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B65B 3/28by weighing (in general [G01G](#))**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Separating measured quantities from supply by weighing	B65B 37/18
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B65B 3/30by volumetric measurement (in general [G01F](#))**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Separating measured quantities from supply by volume measurement	B65B 37/20
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B65B 5/00**Packaging individual articles in containers or receptacles, e.g. bags, sacks, boxes, cartons, cans, jars****References****Limiting references***This place does not cover:*

Packaging surgical instruments	A61B 50/00
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Packaging powders	B65B 1/00
Packaging liquids	B65B 3/00
Packaging bottles	B65B 21/00
Packaging articles presenting special problems	B65B 25/00

B65B 5/02

Machines characterised by incorporation of means for making the containers or receptacles (from flat, folded, or tubular webs of flexible sheet material [B65B 9/00](#); making containers or receptacles of interest apart from this application, see appropriate subclasses)

Definition statement

This place covers:

The container can be a collapsed carton sleeve; accent remaining on filling.

References**Informative references**

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

Making boxes or bags independently from packaging operations see the relevant groups of	B31B and its Indexing Codes
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B65B 5/022

{for making bags}

References**Informative references**

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

Making bags independently from packaging operations see the relevant groups of	B31B , B31B 70/00
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B65B 5/024

{for making containers from preformed blanks}

Definition statement

This place covers:

Cartons formed adjacent to the articles, the articles being subsequently inserted into these preformed cartons.

References**Limiting references**

This place does not cover:

Packaging by wrapping a carton blank around the article	B65B 11/06
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Informative references

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

Opening, erecting or setting up cartons	B65B 43/26
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Making containers independently from packaging operations see the relevant groups of	B31B , B31B 50/00
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B65B 5/026

{for making trays}

References

Informative references

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

Making trays independently from packaging operations see the relevant groups of	B31B , B31B 50/00 , B31B 2100/00
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B65B 5/028

{for making containers from two or more blanks ([B65B 5/026](#) takes precedence)}

References

Informative references

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

Making containers independently from packaging operations see the relevant groups of	B31B , B31B 2105/00 , B31B 2120/00
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B65B 5/045

{in bags}

References

Informative references

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

Packaging of bread	B65B 25/16 , B65B 25/18
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B65B 5/08

Packaging groups of articles, the articles being individually gripped or guided for transfer to the containers or receptacles

Definition statement

This place covers:

This subgroup covers the gripping of a group of articles, wherein the articles are being gripped individually and simultaneously by the gripper.

References

Informative references

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

Arranging and feeding articles in groups by grippers	B65B 35/36
Grippers in general	B25J
Grippers for transferring articles to/from/between conveyors	B65G 47/90

B65B 5/10

Filling containers or receptacles progressively or in stages by introducing successive articles, or layers of articles

References

Limiting references

This place does not cover:

Stacking one article or groups of articles upon another before packaging	B65B 35/50
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Special rules of classification

Containers filled in stages by introducing complete "layers" of articles, the documents are additionally to be classified in the relevant subgroups of [B65B 5/06](#) or [B65B 5/08](#).

B65B 5/103

{for packaging pills or tablets}

Definition statement

This place covers:

This group covers the packaging pills or tablets in containers or receptacles and in a blister web.

Special rules of classification

Packaging pills or tablets in a blister web are additionally classified in [B65B 9/045](#) or [B65B 11/52](#) according to the method in which the blister-web is produced.

B65B 5/105

{by grippers ([B65B 5/12](#) and [B65B 5/108](#) take precedence)}

References

Informative references

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

Arranging and feeding separate articles by grippers	B65B 35/16
Arranging and feeding articles in groups by grippers	B65B 35/36
Grippers in general	B25J
Grippers for transferring articles to/from/between conveyors	B65G 47/90

B65B 7/00

Closing containers or receptacles after filling (combinations of container-closing apparatus with apparatus for filling containers [B65B 1/00](#), [B65B 3/00](#), [B65B 5/00](#); under special atmospheric or gaseous conditions [B65B 31/00](#))

References**Informative references**

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

Conditioning packages in combination with closing/sealing containers	B65B 31/046 , B65B 31/06
Securing package folds or closures, securing necks of bags	B65B 51/00
Shrinking wrappers containers or container covers	B65B 53/00
Sterilisation of packages or package contents	B65B 55/00
Control	B65B 57/00
Machine modularity/adaptability	B65B 59/00
Closing boxes or bags independently from packaging operations see	B31B , B31B 50/004 , B31B 70/004

B65B 7/02

Closing containers or receptacles deformed by, or taking-up shape, of, contents, e.g. bags, sacks

References**Informative references**

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

Sealing of bags by generating heat or pressure	B65B 51/146
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B65B 7/12

and twisting

References**Informative references**

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

Devices for gathering or twisting wrappers, or necks of bags	B65B 51/00
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B65B 7/14

Closing collapsible or resilient tubes, e.g. for tooth paste, for lighter fuel

References**Informative references**

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

Heating tube ends to facilitate their sealing	B29B 13/025
Details of tools for joining the tube end by welding plastics materials	B29C66/463123

B65B 7/16

Closing semi-rigid or rigid containers or receptacles not deformed by, or not taking-up shape of, contents, e.g. boxes, cartons (closing cans by metal-working operations [B21D 51/26](#); stoppering or capping bottles or jars [B67B](#))

References**Limiting references**

This place does not cover:

Concurrent cleaning filling and sealing of bottles	B67C 7/00
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B65B 7/161

{Sealing filled ampoules}

References**Informative references**

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

Filling ampoules	B65B 3/003
Scoring ampoules	B65B 3/006

B65B 7/162

{by feeding web material to securing means}

Definition statement

This place covers:

The closing of containers by feeding web material across the open container and securing it thereto.

References**Informative references**

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

Machines incorporating means for making the container	B65B 1/02 , B65B 3/02 , B65B 5/02
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Making of container by forming pockets in a lower sheet or web to which the web is fed for securing is classified in the relevant subgroups of	B65B 47/00
Cutting of web	B65B 61/04

B65B 7/164**{Securing by heat-sealing}****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Devices for applying or generating heat	B65B 51/10
Joining thermoplastic materials by heat in general	B29C 65/02

B65B 7/167**{Securing by heat-shrinking}****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Devices for heat shrinking	B65B 53/02
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B65B 7/28**by applying separate preformed closures, e.g. lids, covers****References*****Limiting references****This place does not cover:*

Applying separate securing members, e.g. clips, staples, adhesive tape, stitches	B65B 51/04
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B65B 7/2807**{Feeding closures}****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Feeding of auto-adhesives by labelling machines	B65C 9/1884
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B65B 7/285**{by deformation of the closure}****References****Limiting references***This place does not cover:*

Forming the circumferential seam of a can by deformation	B21D 51/30
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B65B 7/2864**{by adhesive tape}****References****Limiting references***This place does not cover:*

Applying adhesive tape for securing package folds or package closures	B65B 51/06
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Details of tools for joining plastic material by applying adhesive tape	B29C 65/50
Adhesive tape dispensers	B65H 35/0006

B65B 7/2871**{by gluing}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Devices for applying adhesives or sealing liquids	B65B 51/02
Details of gluing tools	B29C 65/48

B65B 7/2878**{by heat-sealing}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Devices for applying or generating heat	B65B 51/10
Joining plastics by heating in general	B29C 65/02

B65B 7/2885**{by heat-shrinking (in general [B65B 53/02](#))}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Devices for heat shrinking	B65B 53/02
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B65B 9/00

**Enclosing successive articles, or quantities of material, e.g. liquids or semiliquids, in flat, folded, or tubular webs of flexible sheet material;
Subdividing filled flexible tubes to form packages**

Definition statement*This place covers:*

Packaging in webs of flexible sheet material. The typical form fill seal machines (FFS) are classified here.

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

Packaging in strips sheets or blanks of flexible material (wrapping) and packaging by wrapping several layers of web material around article	B65B 11/00
Making cushion pads or dunnage products from paper of film	B31D 5/0039

Special rules of classification

In this main group, the following features are additionally classified in the following places:

Packaging special articles	B65B 25/00
Conditioning packages	B65B 31/00
Feeding webs	B65B 41/00
Securing package folds or closures	B65B 51/00
Shrinking wrappers containers or container covers	B65B 53/00
Sterilisation of packages or package contents	B65B 55/00
Control	B65B 57/00
Machine modularity/adaptability	B65B 59/00
Operations on the web	B65B 61/00
Details of machines	B65B 65/00

B65B 9/026**{the webs forming a curtain}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Manufacturing absorbent pads, e.g. sanitary towels	A61F 13/15577
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B65B 9/04**one or both webs being formed with pockets for the reception of the articles, or of the quantities of material****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Forming tool details for thermoforming plastic materials are classified in	B29C 51/18
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Special rules of classification

In this group and its subgroups the tool detail rotary pocket former is also given the classification	B65B 2009/047
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B65B 9/042**{for fluent material}****Glossary of terms***In this place, the following terms or expressions are used with the meaning indicated:*

Fluent	liquid or gas or granular or pulverulent
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B65B 9/045**{for single articles, e.g. tablets}****Definition statement***This place covers:*

Blister packages where the pockets are formed before insertion of the articles.

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

Blister packs formed around articles	B65B 11/52
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B65B 9/06

Enclosing successive articles, or quantities of material, in a longitudinally-folded web, or in a web folded into a tube about the articles or quantities of material placed upon it

Special rules of classification

In this group and its subgroups the detail forming shoulder is additionally given the classification [B65B 2009/063](#)

B65B 9/067

the web advancing continuously ([B65B 9/08](#) takes precedence)

Special rules of classification

If the document discloses both continuous and intermittent operation, classification is done in both [B65B 9/067](#) and [B65B 9/073](#)

B65B 9/073

the web having intermittent motion ([B65B 9/08](#) takes precedence)

Special rules of classification

If the document discloses both continuous and intermittent operation, classification is done in both [B65B 9/067](#) and [B65B 9/073](#)

B65B 9/087

the web advancing continuously

Special rules of classification

If the document discloses both continuous and intermittent operation, classification is done in both [B65B 9/087](#) and [B65B 9/093](#)

B65B 9/093

the web having intermittent motion

Special rules of classification

If the document discloses both continuous and intermittent operation, classification is done in both [B65B 9/087](#) and [B65B 9/093](#)

B65B 9/14

Devices for distending tubes supplied in the flattened state

References**Limiting references**

This place does not cover:

Distending tubes that are to be applied to bottles	B65C 3/065
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B65B 9/20

the webs being formed into tubes in situ around the filling nozzles

References**Informative references**

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

Evacuating, gassifying, or pressurising in combination with filling	B65B 31/045
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Special rules of classification

Packages of special shape are also classified in [B65B 9/2056](#) or [B65B 9/2063](#). Examples of packages classified in [B65B 9/2056](#) comprise for instance pyramide bags, bags with double chambers and bags with varying cross-sections.

Packages produced with an apparatus/method of this subgroup(s) and which are additionally packaged into a further container are also classified in the Indexing Codes of [B65B 2220/16](#).

B65B 9/2021

{combined with longitudinal welding devices}

Definition statement

This place covers:

Heated belts, heated rollers.

References**Informative references**

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

Structural features of longitudinal welding devices	B65B 51/26
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B65B 9/2035

{Tube guiding means}

References**Informative references**

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

Tube formers	B65B 9/22
Guiding of the web by rollers before the tube is formed	B65B 41/16

Special rules of classification

Rollers for guiding and for forming tubes are classified both here and in [B65B 9/22](#)

B65B 9/2042

{Means for altering the cross-section of the tube filling opening prior to transversal sealing, e.g. tube spreading devices (subdividing filled tubes to form two or more packages by sealing involving displacement of contents [B65B 9/12](#))}

Definition statement

This place covers:

Spreading devices.

Gusset tucking devices.

Creation of additional edge welds after forming of tube for giving the package more stability.

B65B 9/2049

{Package shaping devices acting on filled tubes prior to sealing the filling opening (shaping or reshaping completed packages [B65B 61/24](#))}

Definition statement

This place covers:

Folding in corners

Rotary forming devices, etc.

References**Limiting references**

This place does not cover:

Means for stripping to remove air or products from sealing area	B65B 9/2007
If shaping takes place after cutting the container off, e.g. reshaping completed packages	B65B 61/24

B65B 9/207

the web advancing continuously ([B65B 9/22](#) takes precedence)

Special rules of classification

If document discloses both continuous and intermittent operation, classification is done in both [B65B 9/213](#) and [B65B 9/207](#)

B65B 9/213

the web having intermittent motion ([B65B 9/22](#) takes precedence)

Special rules of classification

If document discloses both continuous and intermittent operation, classification is done in both [B65B 9/213](#) and [B65B 9/207](#)

B65B 9/22

Forming shoulders; Tube formers

Special rules of classification

If tube is formed by rollers, then classification [B65B 9/2035](#) is also given.

If document shows a form fill seal (FFS) machine then classification is also done in [B65B 9/207](#) and/or [B65B 9/213](#) or [B65B 9/20](#)

B65B 11/00

Wrapping, e.g. partially or wholly enclosing, articles, or quantities of material, in strips, sheets or blanks, of flexible material (bundling articles by applying narrow strips or bands of flexible material [B65B 13/00](#); devices for folding or bending wrappers around contents [B65B 49/00](#); devices for gathering or twisting wrappers [B65B 51/00](#))

Definition statement

This place covers:

Two main aspects:

- Wrapping by application of a web in (several) layers onto the articles, the web not necessarily being a pre-cut strip, sheet or blank;
- packaging in (cut off) strips sheets and blanks of flexible material.

The first aspect is covered by subgroups [B65B 11/006](#), [B65B 11/008](#), [B65B 11/02](#) and [B65B 11/04](#).

The second aspect is covered by subgroups [B65B 11/004](#), [B65B 11/06](#), [B65B 11/48](#), [B65B 11/50](#), [B65B 11/54](#), [B65B 11/56](#) and [B65B 11/58](#).

References

Limiting references

This place does not cover:

Cartons pre-formed adjacent to article the article subsequently being inserted into the preformed carton	B65B 5/024
Packaging in webs of flexible sheet material	B65B 9/00

Informative references

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

Shaping webs or sheets by stretching	B29C 55/02
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Special rules of classification

The following features are additionally classified in the following places:

Packaging bottles [B65B 21/00](#)

Packaging special articles [B65B 25/00](#)

Conditioning packages [B65B 31/00](#)

Feeding webs [B65B 41/00](#)

Devices for folding or bending wrappers around contents [B65B 49/00](#)

Details of securing package folds or closures [B65B 51/00](#) .

Shrinking wrappers containers or container covers [B65B 53/00](#) .

Sterilisation of packages or package contents [B65B 55/00](#).

Control [B65B 57/00](#).

Machine modularity/adaptability [B65B 59/00](#)

Operations on the web [B65B 61/00](#).

Details of machines [B65B 65/00](#).

B65B 11/004

{in blanks, e.g. sheets precut and creased for folding (devices for folding or bending wrappers around contents [B65B 49/00](#))}

References

Informative references

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

Folding blanks around a mandrel to create a container see	B65B , B31B 50/28
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Special rules of classification

Documents classified here are additionally classified in [B65B 11/06](#) and its subgroups, provided they apply.

B65B 11/006

{Helical strip wrapping combined with roping}

Special rules of classification

Documents classified here are additionally classified in [B65B 2210/14](#) and its subgroups, provided they apply.

Glossary of terms

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

Roping	gathering the flat web into a rope, which is applied helically around the object or to finish the wrapping operation.
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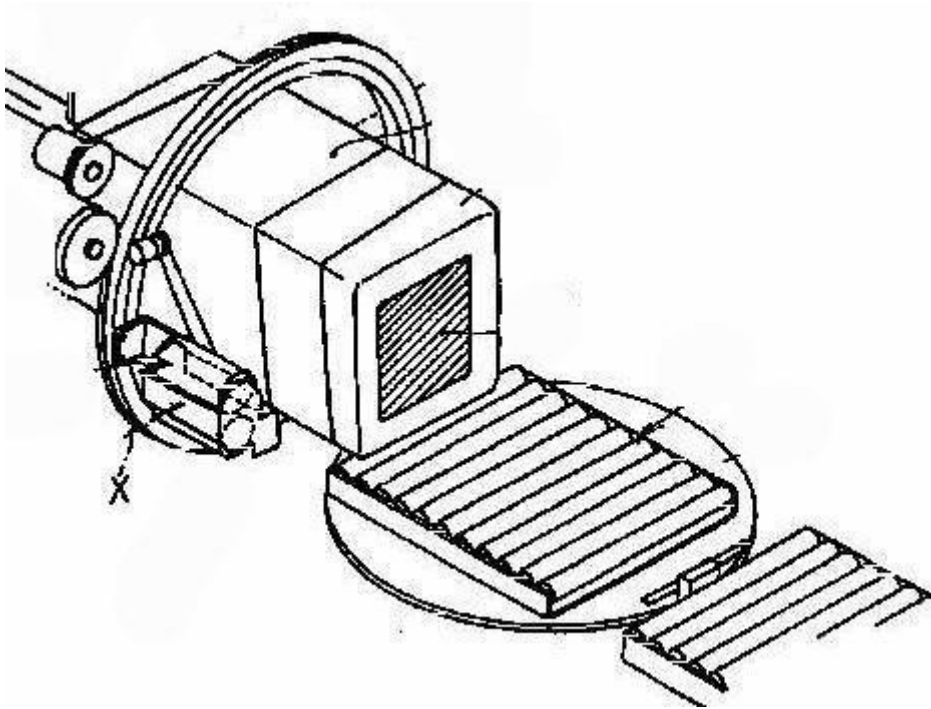
B65B 11/008

{by webs revolving around articles moved along the axis of revolution}

Definition statement

This place covers:

Helicoidal wrapping, the article being moved:



JP2002225807

References***Limiting references***

This place does not cover:

Helicoidal wrapping around stationary or merely rotating articles	B65B 11/02 , B65B 11/04
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Special rules of classification

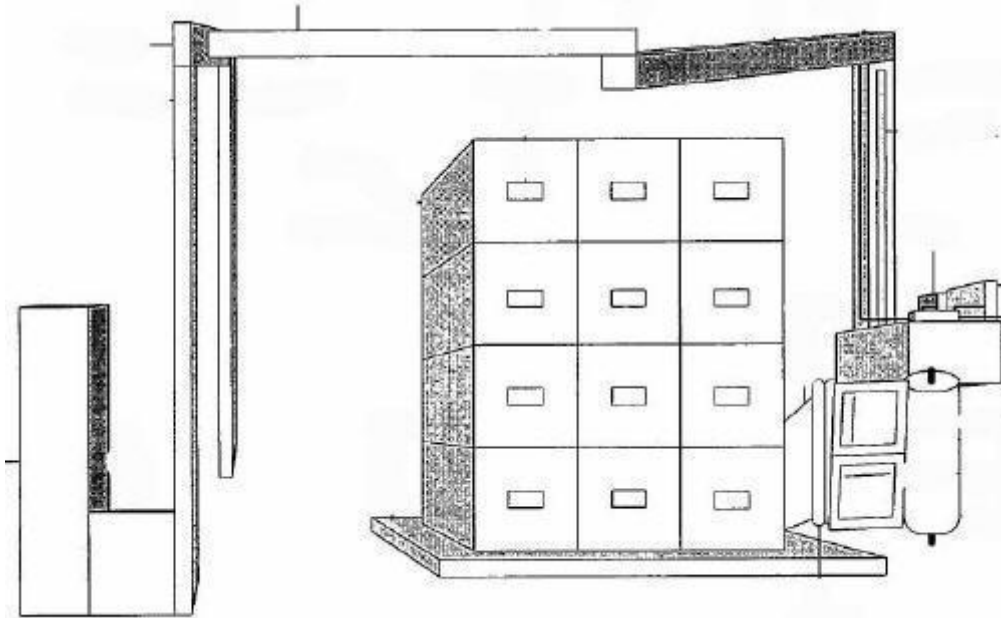
Documents classified here are additionally classified in [B65B 2210/14](#) and its subgroups, provided they apply.

B65B 11/025

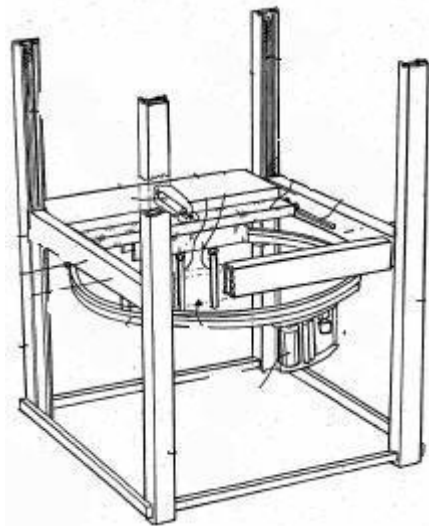
{by webs revolving around stationary articles}

Definition statement

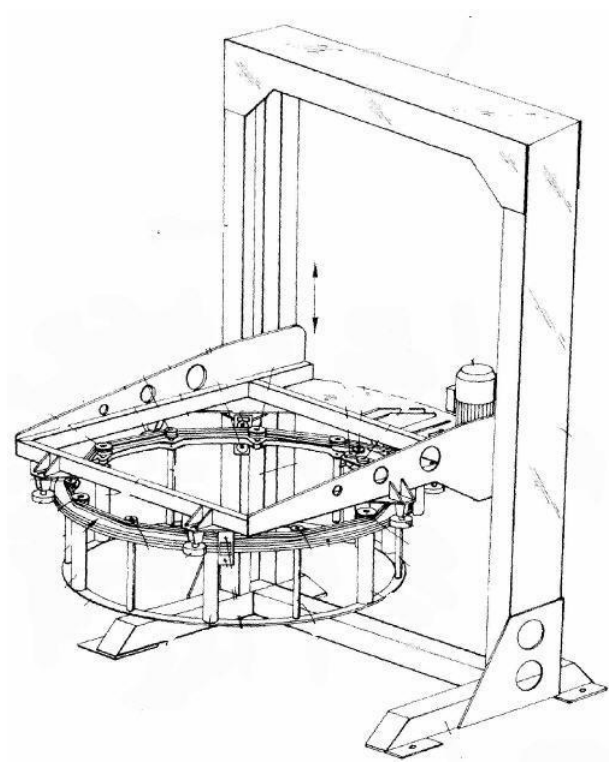
This place covers:



WO2006050440 Rotary arm type



EP1471004 stationary ring type, the dispenser alone moving along the ring



EP1705119 rotary ring type

Special rules of classification

Documents classified here are additionally classified in [B65B 2210/14](#) and its subgroups, provided they apply.

B65B 11/06

Wrapping articles, or quantities of material, by conveying wrapper and contents in {common} defined paths

Definition statement

This place covers:

the conveying of wrapper and article along common paths.

Emphasis is put on the word common, meaning the path taken by the article from the point where it first touches the wrapper.

Examples:

- The article is conveyed along a straight path and pushed into a seat of a wrapping machine - this would be a common straight path whereby the wrapper is folded around the article.
- The article is conveyed along a straight path and pushed into a seat of a wrapping machine, the wrapping machine subsequently completing the wrapping of the article along a different straight direction than the first straight path -this would be a two straight paths taken by wrapper and article.
- The wrapper with the article undergo a folding operation along the rotary path of a turret - this would be a common curved path taken by the article and wrapper.
- A wrapping operation comprising both a straight path and a curved path would be a combination of straight and curved paths.

References**Limiting references**

This place does not cover:

Wrapping of coins	G07D 9/065
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Special rules of classification

Articles wrapped in preformed blanks, e.g. blanks precut and creased for

Folding, are additionally classified in	B65B 11/004
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B65B 11/10

to fold the wrappers in tubular form about contents

References**Informative references**

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

Wrapping bottles	B65B 21/245
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B65B 11/105

{the axis of the tube being parallel to the conveying direction}

References**Informative references**

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

Wrapping bottles	B65B 21/24
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B65B 11/14

the ends of the tube being subsequently twisted

References**Informative references**

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

Twisting devices	B65B 51/00
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B65B 11/24

the ends of the tube being subsequently twisted

References**Informative references**

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

Twisting devices	B65B 51/00
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B65B 11/34

the ends of the tube being subsequently twisted

References**Informative references**

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

Twisting devices	B65B 51/00
------------------	----------------------------

B65B 11/44

the ends of the tube being subsequently twisted

References**Informative references**

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

Twisting devices	B65B 51/00
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B65B 11/52

one sheet being rendered plastic, e.g. by heating, and forced by fluid pressure, e.g. vacuum, into engagement with the other sheet and contents, e.g. skin-{}, blister-, or bubble-} packaging

Definition statement

This place covers:

Blister packs formed around the articles

References**Limiting references**

This place does not cover:

Enclosing articles in blister packages where the pockets are formed into webs before insertion of the articles	B65B 9/045
--	----------------------------

B65B 11/54

Wrapping by causing the wrapper to embrace one end and all sides of the contents, and closing the wrapper onto the opposite end by forming regular or irregular pleats

References**Informative references**

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

Flexible brushes or diaphragms to bend wrapper around contents	B65B 49/06
Twisting the end of the wrapper	B65B 51/00

B65B 13/00

Bundling articles (bundling particular articles presenting special problems using string, wire or narrow tape or band [B65B 27/00](#); {straining wire in general [B21F 9/00](#); connecting wire to wire in general [B21F 15/00](#)})

References**Informative references**

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

Securing cargo in vehicles	B60P 7/00
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Special rules of classification

Bundling special articles are additionally classified in the relevant subgroups of [B65B 27/00](#)

B65B 13/025

{Hand-held tools}

Special rules of classification

Elongated bars for manually guiding a strap underneath a pallet are additionally to be classified in [B65B 13/08](#)

B65B 13/027

{for applying straps having preformed connecting means, e.g. cable ties}

Definition statement

This place covers:

E.g. a buckle.

B65B 13/08

Single guide or carrier for the free end of material movable part-away around articles from one side only

Special rules of classification

Guides in the form of elongated bars for manual guidance under a pallet are additionally classified in [B65B 13/025](#)

B65B 13/181

{applying edge protecting members during bundling}

Definition statement

This place covers:
bundling or wrapping

B65B 13/285

{Hand tools}

References**Limiting references**

This place does not cover:

Hand held tools for twisting ends of binding material on building sites	E04G 21/122
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B65B 13/322

{Friction welding}

References**Informative references**

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

Details of friction sealing tools	B29C 65/06
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B65B 13/325

{Ultrasonic welding}

References**Informative references**

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

Details of ultrasonic sealing tools	B29C 65/08
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B65B 13/327**{Hand tools}****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Joining tools of hand held type	B29C 66/861
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B65B 15/00**Attaching articles to cards, sheets, strings, webs, or other carriers****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Adding cards or other inserts to package contents	B65B 61/20
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B65B 17/00**Other machines, apparatus, or methods for packaging articles or materials****Definition statement***This place covers:*

This main group covers all packaging machines, apparatus or methods that are not covered by any other of the [B65B](#) main groups.

B65B 17/02**Joining articles, e.g. cans, directly to each other for convenience of storage, transport, or handling****References*****Limiting references****This place does not cover:*

Bundling cans	B65B 27/04
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B65B 19/00

Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws, welding electrodes (final treatment of cigars or cigarettes after manufacture [A24C 1/38](#), [A24C 5/60](#))

Definition statement

This place covers:

Packaging finished cigarettes, cigars and other rod-shaped articles

References**Informative references**

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

Packaging tobacco in bags (snus)	B65B 29/00
Manufacture or preparation of tobacco for smoking, the making of the cigarette and the making of chewing tobacco (snuff)	A24B

B65B 19/20

into boxes with hinged lids

Definition statement

This place covers:

Everything about "collars"

B65B 19/34

Packaging other rod-shaped articles, e.g. sausages, macaroni, spaghetti, drinking straws, welding electrodes

References**Limiting references**

This place does not cover:

Bundling rod-shaped articles	B65B 27/10
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B65B 21/00

Packaging or unpacking of bottles (bundling bottles [B65B 27/04](#))

Special rules of classification

Documents classified in this main group should additionally be classified in the relevant subgroups of:

- [B65B 5/00](#)
- [B65B 9/00](#)
- [B65B 11/00](#)

B65B 21/04

Arranging, assembling, feeding, or orientating the bottles prior to introduction into, or after removal from, containers {([B65B 21/025](#) takes precedence)}

References**Informative references**

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

Arranging, assembling, feeding or orientating of articles to be packaged in general	B65B 35/00
Arranging, feeding, transferring or orientating of articles in association with conveyors are classified in the relevant subgroups of	B65G 47/00

B65B 21/08

Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers

References**Limiting references**

This place does not cover:

Picking up and depositing groups of bottles for filling the container in a single step	B65B 21/14
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B65B 21/12

using grippers engaging bottles, e.g. bottle necks (grippers in general [B25J](#))

References**Informative references**

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

Arranging and feeding bottles in groups by grippers	B65B 35/16 , B65B 35/36
Devices for picking-up and depositing articles in combination with conveyors	B65G 47/90

B65B 21/14

Introducing or removing groups of bottles, for filling or emptying containers in one operation

References**Limiting references**

This place does not cover:

Picking up and depositing single bottles and progressively filling/emptying a container with several groups of bottles is classified in	B65B 21/08
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B65B 21/18

using grippers engaging bottles, e.g. bottle necks (grippers in general [B25J](#))

References**Informative references**

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

Arranging and feeding bottles in groups by grippers	B65B 35/16 , B65B 35/36
Devices for picking-up and depositing articles in general	B65G 47/90

B65B 21/186

{Inflatable grippers}

Definition statement

This place covers:

Inflatable grippers for engaging bottle necks in combination with packaging

References**Informative references**

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

Inflatable grippers for picking up and depositing articles in combination with conveying	B65G 47/908
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B65B 21/24

Enclosing bottles in wrappers

Special rules of classification

Documents classified in [B65B 21/24](#) and its subgroups are also classified in the relevant subgroups of [B65B 9/00](#) or [B65B 11/00](#)

B65B 21/242

{in collapsed carton sleeves}

References**Informative references**

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

Machines incorporating means for making the containers from preform blanks	B65B 5/024
Feeding carton blanks	B65B 43/14
Erecting or setting up carton blanks	B65B 43/26

B65B 21/245

{in flexible wrappers, e.g. foils ([B65B 21/26](#) takes precedence)}

References**Limiting references**

This place does not cover:

Enclosing bottles in narrow bands, i.e. bundling	B65B 27/04
--	----------------------------

B65B 23/00

Packaging fragile or shock-sensitive articles other than bottles; Unpacking eggs (embedding articles in shock-absorbing media [B65B 55/20](#))

Special rules of classification

Documents classified in this main group should additionally be classified in the relevant subgroups of:

- [B65B 5/00](#)
- [B65B 9/00](#) and/or [B65B 11/00](#)

B65B 23/02

Packaging or unpacking eggs

References**Informative references**

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

Testing, sorting or cleaning of eggs	A01K 43/00
Preservation of eggs	A23B 5/00

B65B 23/06

Arranging, feeding, or orientating the eggs to be packed; Removing eggs from trays or cartons

References**Informative references**

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

Arranging, feeding or orientating of articles to be packaged in general	B65B 35/00 .
Arranging, feeding, transferring or orientating of articles in association with conveyors in general	B65G 47/00

B65B 23/12

Arranging, feeding, or orientating the biscuits to be packaged (in connection with baking [A21C 15/00](#))

References**Informative references**

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

Arranging, feeding or orientating of articles to be packaged in general	B65B 35/00
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B65B 23/20

Packaging plate glass, tiles, or shingles {(measures for preventing damage to stacked glass sheets [B65G 49/068](#))}

References**Informative references**

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

Bundling of bricks or other building blocks	B65B 27/02 .
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B65B 25/00

Packaging other articles presenting special problems (bundling [B65B 27/00](#))

References**Limiting references**

This place does not cover:

Packaging surgical instruments	A61B 50/00
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Special rules of classification

Documents classified in this main group should additionally be classified in the relevant subgroups of:

[B65B 5/00](#)

[B65B 9/00](#) and/or - [B65B 11/00](#)

B65B 25/001

{of foodstuffs, combined with their conservation ([B65B 25/041](#), [B65B 25/062](#), [B65B 25/067](#) take precedence)}

References**Informative references**

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

Packaging under special atmospheric conditions	B65B 31/00
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Preserving, protecting or purifying packages or package contents in association with packaging	B65B 55/00
General methods for preserving meat, sausages, fish or fish products	A23B 4/00
Preservation of fruits and vegetables	A23B 7/00
Preservation of edible seeds	A23B 9/00
Preservation of foods or foodstuffs, in general	A23L
Packages specially adapted herefor	B65D 81/24

B65B 25/002

{packaging of information carriers, e.g. records, CD, DVD}

Definition statement

This place covers:

Packaging of all kind of information carriers (CD's,DVD's,videos,etc.)

References

Informative references

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

CD cases	G11B 33/0405.
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B65B 25/005

{packaging of confectionery}

References

Informative references

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

Apparatus for measuring, weighing or wrapping of chocolate or candies	A23G 7/0012
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B65B 25/007

{packaging of ice-cream}

References

Informative references

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

Filling ice-cream into containers	A23G 9/283
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B65B 25/008**{packaging of contact lenses}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Immersing lenses in protective liquids	B65B 55/22
Contact lens cases	A45C 11/005
Moulding of contact lenses	B29D 11/00038
Making of optical lenses	G02B

B65B 25/02**Packaging agricultural or horticultural products****References****Limiting references***This place does not cover:*

Packaging tobacco	B65B 29/00
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B65B 25/04**Packaging fruit or vegetables (bag or sack-filling devices associated with digging harvesters [A01D 33/10](#))****Definition statement***This place covers:*

Packaging fruit and vegetables in trays.

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

Applying stretch film over trays	B65B 11/54
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B65B 25/046**{in crates or boxes ([B65B 25/045](#) takes precedence)}****References****Limiting references***This place does not cover:*

Packaging fruit and vegetables in trays	B65B 25/04
---	----------------------------

B65B 25/06

Packaging slices or specially-shaped pieces of meat, cheese, or other plastic or tacky products

References**Limiting references**

This place does not cover:

Extrusion combined with cutting and packaging (e.g. butter)	A01J 21/02
---	----------------------------

Informative references

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

General methods for preserving meat, sausages, fish or fish products	A23B
Preservation of foods or foodstuffs, in general	A23L
Conveying or stacking cut products	B26D 7/32

B65B 25/062

{combined with its conservation}

References**Informative references**

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

Packaging under special atmospheric conditions	B65B 31/00
Preserving, protecting or purifying packages or package contents in association with packaging	B65B 55/00

B65B 25/065

{of meat}

References**Limiting references**

This place does not cover:

Sausage making	A22C 11/00
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B65B 25/067**{combined with its conservation}****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Packaging under special atmospheric conditions	B65B 31/00
Preserving, protecting or purifying packages or package contents in association with packaging	B65B 55/00

B65B 25/14**Packaging paper or like sheets, envelopes, or newspapers, in flat, folded, or rolled form****References*****Limiting references****This place does not cover:*

Inserting (packaging) documents into envelopes	B43M 3/00
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Bundling paper or like sheets	B65B 27/08
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B65B 25/145**{packaging folded articles}****Definition statement***This place covers:*

Examples of folded articles are: towels, napkins, diapers, absorbent articles in general

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

Devices for folding articles	B65B 63/04
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B65B 25/146**{packaging rolled-up articles}****Definition statement***This place covers:*

E.g. toilet or kitchen rolls.

B65B 25/148**{Jumbo paper rolls}****Definition statement***This place covers:*

E.g. applying covers at the ends of the rolls.

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

Applying tape on the paper roll	B65H 19/29
---------------------------------	----------------------------

B65B 25/18**Sliced bread (cutting or slicing machines specially adapted for bakeries [A21C 15/04](#); breadslicing machines or apparatus [B26D](#))****Definition statement***This place covers:*

Packaging bread in general, e.g. by wrapping.

B65B 25/20**Packaging garments, e.g. socks, stockings, shirts****References****Limiting references***This place does not cover:*

Packaging garments in combination with folding	B65B 63/045
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Folding of garments without packaging	D06F 89/00
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B65B 25/22

Packaging articles of food, e.g. fish fillets, intended to be cooked in the package

Definition statement

This place covers:

Edible articles

References**Limiting references**

This place does not cover:

Packaging edible materials (i.e. powder/liquid) which are to be cooked/infused in the package	B65B 29/08
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B65B 25/24

Packaging annular articles, e.g. tyres

References**Informative references**

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

Bundling annular objects	B65B 27/06
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Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- "tyres" and "tires"

B65B 27/00

Bundling particular articles presenting special problems using string, wire, or narrow tape or band; Baling fibrous material, e.g. peat, not otherwise provided for (bundling articles in general [B65B 13/00](#))

Special rules of classification

Documents classified in this main group should additionally be classified in the relevant subgroups of [B65B 13/00](#)

B65B 27/02

Bundling bricks or other building blocks

References**Informative references**

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

Packaging plate glass, tiles or shingles	B65B 23/20
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B65B 27/04**Bundling groups of cans or bottles****References****Limiting references**

This place does not cover:

Joining cans directly to each other	B65B 17/02
Joining cans by top carrier element	B65B 17/025

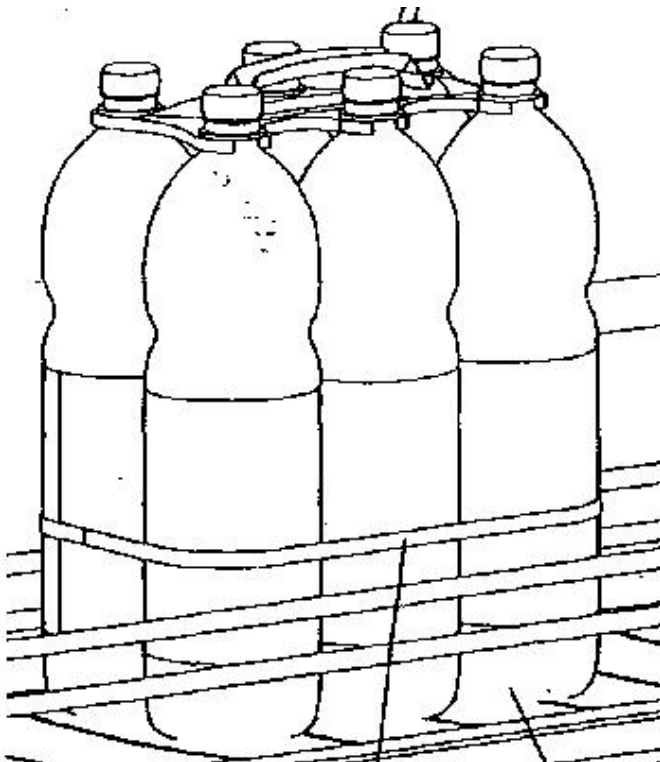
Informative references

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

Wrapping bottles	B65B 21/24
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Special rules of classification

In cases where the cans or bottles are bundled together by a "top carrier element" in addition to a strap, classification [B65B 17/025](#) is given in addition to [B65B 27/04](#).

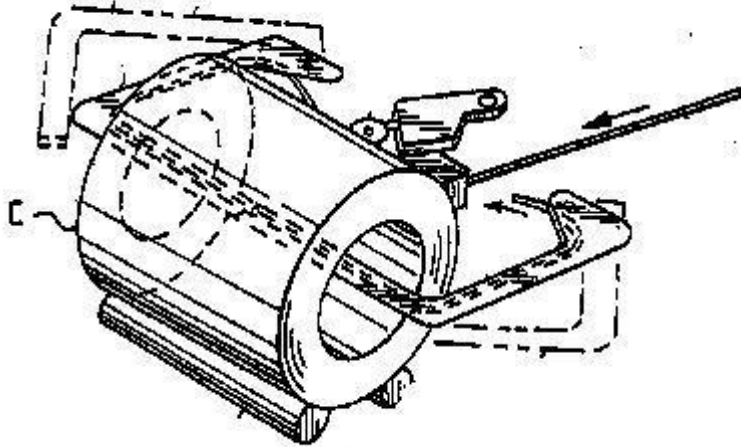


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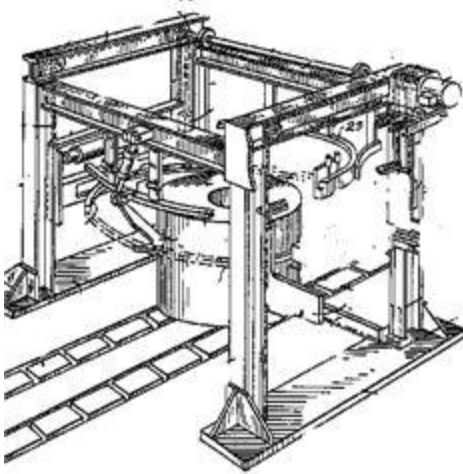
B65B 27/06**Bundling coils of wire or like annular objects****Definition statement**

This place covers:

e.g. bundling of rolls of sheet metal



US5540142 Bundling through coil



US3662628 Bundling around coil

References***Informative references***

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

Packaging annular articles	B65B 25/24
----------------------------	----------------------------

B65B 27/08**Bundling paper sheets, envelopes, bags, newspapers, or other thin flat articles****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Packaging paper or like articles	B65B 25/14
----------------------------------	----------------------------

B65B 27/10**Bundling rods, sticks, or like elongated objects****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Packaging rods, sticks or like elongated objects	B65B 19/34
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B65B 27/12**Baling or bundling compressible fibrous material, e.g. peat (baling presses for straw, hay, or the like [A01F 15/00](#); baling presses in general [B30B 9/30](#))****Special rules of classification**Baling presses with integral bundling apparatus are classified both here and in [B30B 9/30](#).**B65B 29/00****Packaging of materials presenting special problems****Definition statement***This place covers:*

Packaging tobacco in bags (snus)

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

Packaging finished cigarettes, cigars and other rod-shaped articles	B65B 19/00
Manufacture or preparation of tobacco for smoking, the making of the cigarette and the making of chewing tobacco (snuff)	A24B

Special rules of classification

Documents classified in this main group should additionally be classified in the relevant subgroups of:

[B65B 3/00](#)

[B65B 9/00](#) and/or - [B65B 11/00](#)

Glossary of terms

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

Snus	snuff
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B65B 29/02

Packaging of substances, e.g. tea, which are intended to be infused in the package

Definition statement

This place covers:

Procedures or methods for packaging of tea, coffee, herbs, etc. intended to be infused in the package.

References

Informative references

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

Coffee making machines	A47J 31/00
Disposable containers that are infused, such as tea bags or coffee cartridges like Nespresso™	B65D 85/804

Glossary of terms

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

Capsule	a rigid package.
Filter bag	a non-rigid package having loose contents.
Pod	a non-rigid package having compressed contents and possibly rigid inserts.

B65B 29/08

Packaging of edible materials intended to be cooked in the package (infusible substances [B65B 29/02](#))

Definition statement

This place covers:

Edible materials, i.e. in powder or liquid form.

References

Limiting references

This place does not cover:

Packaging edible articles that are to be cooked in the package	B65B 25/22
--	----------------------------

B65B 31/00

Packaging articles or materials under special atmospheric or gaseous conditions; Adding propellants to aerosol containers (auxiliary treatments during loading or unloading in a fluid medium other than air [B65G 69/20](#))

Definition statement

This place covers:

E.g. the deaeration of packages with mechanical means (e.g. compressing package before sealing).

B65B 31/003

{Adding propellants in fluid form to aerosol containers (in solid form [B65B 31/10](#))}

Definition statement

This place covers:

Everything concerning the filling and refilling of aerosols.

Special rules of classification

Pressurisation by nozzle cooperating with a check valve is additionally classified in [B65B 31/047](#).

Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- "aerosol container" and "spray can"

B65B 31/006

{Adding fluids for preventing deformation of filled and closed containers or wrappers}

Definition statement

This place covers:

Fluids including cryogenic fluids.

References**Informative references**

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

Package under superatmospheric pressure	B65D 81/2046
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B65B 31/02

Filling, closing, or filling and closing, containers {or wrappers} in chambers maintained under vacuum or superatmospheric pressure or containing a special atmosphere, e.g. of inert gas

Definition statement

This place covers:

Evacuating, pressurising or gasifying a container or wrapper completely enclosed in a chamber.

References**Informative references**

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

Skin packaging	B65B 11/52
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B65B 31/028

{closed by a lid sealed to the upper rim of the container, e.g. tray-like container}

Special rules of classification

If said lid is fed as a web to securing means, it is additionally to be classified in [B65B 7/162](#).

B65B 31/04

Evacuating, pressurising, or gasifying filled containers or wrappers, {or containers or wrappers to be filled,} by means of nozzles through which air or other gas, e.g. an inert gas, is withdrawn or supplied (nozzles for introducing articles or materials into containers [B65B 39/00](#))

Definition statement

This place covers:

The element "nozzle" is important for this group; otherwise it is classified in [B65B 31/00](#)

References**Limiting references**

This place does not cover:

Evacuating, pressurising or gasifying a container or wrapper completely enclosed in a chamber	B65B 31/02
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B65B 31/045

{of Vertical Form-Fill-Seal [VFFS] machines}

Special rules of classification

Additional aspects of vertical form fill seal (VFFS) machines are classified in the relevant subgroups of [B65B 9/20](#)

B65B 31/046

{the nozzles co-operating, or being combined, with a device for opening or closing the container or wrapper ([B65B 31/06](#) takes precedence)}

Definition statement

This place covers:

Bag evacuating and sealing apparatus devices whereby only a part of the bag is enclosed in the apparatus.

B65B 31/047

{the nozzles co-operating with a check valve in the opening of the container or wrapper}

Definition statement

This place covers:

E.g. nozzles co-operating with the valve of an aerosol.

References**Informative references**

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

Pumps	F04B
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B65B 31/06

the nozzle being arranged for insertion into, and withdrawal from, the mouth of a filled container and operating in conjunction with means for sealing the container mouth

Special rules of classification

The details of sealing means are additionally classified in [B65B 51/00](#).

B65B 31/10

Adding propellants in solid form to aerosol containers

References**Informative references**

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

Adding propellants in liquid form	B65B 31/003
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B65B 33/00

Packaging articles by applying removable, e.g. strippable, coatings (applying liquids or other fluent materials to surfaces in general [B05](#); wrapping cores by winding [B65H 81/00](#))

References**Informative references**

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

Coating compositions	C09D 5/20
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B65B 35/00

Supplying, feeding, arranging, or orientating articles to be packaged (cigarettes [B65B 19/04](#); bottles [B65B 21/04](#); eggs [B65B 23/06](#); biscuits [B65B 23/12](#); {adjustable conveying means [B65B 59/005](#)} if not restricted to packaging machines [B07C](#), [B65G](#), [B65H](#))

Definition statement

This place covers:

Supplying articles that are to be packaged

References**Informative references**

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

Supplying powders or liquids to be packaged	B65B 37/00
Supplying, feeding containers to the filling position	B65B 43/42

B65B 35/08

using pocketed conveyors

References**Informative references**

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

Devices for arranging articles or materials during feeding (rotating platform)	B65B 43/60
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B65B 35/50**Stacking one article, or group of articles, upon another before packaging****References****Limiting references**

This place does not cover:

Stacking one article or groups of articles upon another directly in the packaging container	B65B 5/10
---	---------------------------

Informative references

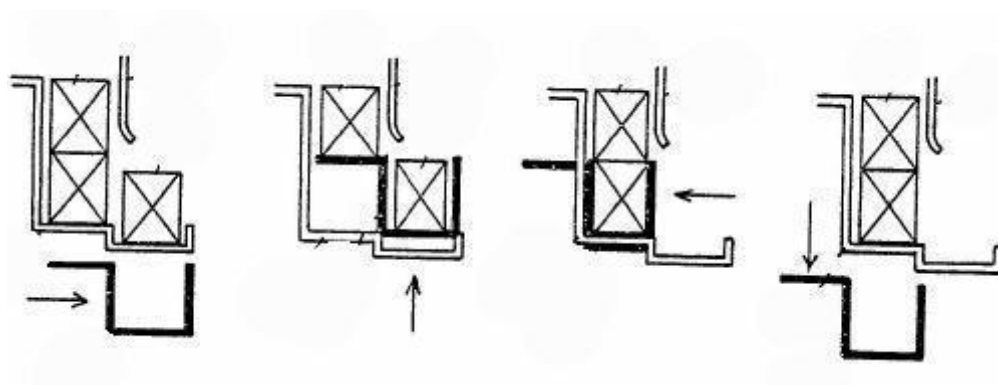
Attention is drawn to the following places, which may be of interest for search:

Stacking, not in conjunction with subsequent wrapping	B65G 57/00
Special features of the stacking apparatus	B65G 57/00

B65B 35/52**building-up the stack from the bottom****Definition statement**

This place covers:

Building a stack from the bottom, by adding objects to the bottom of the stack.



GB616902

References**Informative references**

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

Stacking from below, not in conjunction with wrapping	B65G 57/30
Special features of the stacking apparatus	B65G 57/30

B65B 35/54**Feeding articles along multiple paths to a single packaging position****References****Informative references**

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

Conveying from one conveyor to many conveyors and vice versa	B65G 47/68
--	----------------------------

B65B 35/56**Orientating, i.e. changing the attitude of, articles, e.g. of non-uniform cross-section****Definition statement**

This place covers:

Orientation in a passive way

References**Informative references**

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

Devices for arranging articles or materials during feeding (rotating platform)	B65B 43/60
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B65B 35/58**Turning articles by positively-acting means, e.g. to present labelled portions in uppermost position****Definition statement**

This place covers:

Orientation in an active way

References**Informative references**

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

Devices for presenting articles in predetermined attitude or position at the labelling station, e.g. to receive the label	B65C 9/06
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B65B 37/00

Supplying or feeding fluent-solid, plastic, or liquid material, or loose masses of small articles, to be packaged (methods of, or means for, filling individual containers with such materials or articles [B65B 1/04](#), [B65B 3/04](#))

Definition statement

This place covers:

Supplying powders or liquids that are to be packaged

References**Informative references**

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

Supplying articles	B65B 35/00
Silos	B65D 88/68
Emptying silos	B65G 65/48

B65B 37/10

of screw type

References**Informative references**

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

Methods or means for filling the material into containers or receptacles by screw type rotary feeders	B65B 1/12
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B65B 37/18

by weighing (in general [G01G](#))

References**Limiting references**

This place does not cover:

Devices or methods for controlling the quantity of material or liquid fed or filled into a container by weighing	B65B 1/32 , B65B 3/28
--	---

B65B 37/20by volume measurement (in general [G01F](#))**References****Limiting references***This place does not cover:*

Devices or methods for controlling the quantity of material or liquid fed or filled into a container by volume measurement	B65B 1/36 , B65B 3/30
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B65B 39/00Nozzles, funnels, or guides for introducing articles or materials into containers or wrappers (nozzles in general [B05B](#); funnels in general [B67C 11/00](#))**References****Limiting references***This place does not cover:*

Funnels for coffee mills	A47J 42/50
Fuel tank nozzles	B60K 15/03

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

Sterilising or cleaning machinery or conduits	B65B 2210/06
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Special rules of classification

The following features are additionally classified in the following places:

Strainer means [B65B 2039/008](#)Multiple outlets [B65B 2039/009](#)Cleaning arrangements [B65B 2210/08](#) .**B65B 39/001**

{with flow cut-off means, e.g. valves}

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

Nozzles with flow cut-off means contained in bottling machines	B67C 3/28
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B65B 41/00

Supplying or feeding container-forming sheets or wrapping material (in general [B65H](#))

References**Informative references**

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

Making of bags	B31B
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B65B 41/12

Feeding webs from rolls

References**Informative references**

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

Changing the rolls	B65H
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B65B 41/18

Registering sheets, blanks, or webs

References**Informative references**

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

Controlling web feed	B65B 57/04
Controlling transverse register of web	B65H 23/032

B65B 43/00

Forming, feeding, opening or setting-up containers or receptacles in association with packaging (forming pockets in sheets, blanks or webs, by pressing the material into forming dies or moving it through folding dies [B65B 47/00](#))

Special rules of classification

The making of bags and the making and setting up boxes are additionally classified in the relevant subgroups of [B31B](#).

B65B 43/02**Forming flat bags from individual sheets or blanks****References****Limiting references***This place does not cover:*

Making the bags just before filling them, e.g. on the same machine	B65B 1/02 , B65B 3/02 , B65B 5/022
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Forming flat bags from individual sheets or blanks independently from packaging operations see	B65B , B31B 70/00 , B31B 2150/00
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B65B 43/04**Forming flat bags from webs****References****Limiting references***This place does not cover:*

Making the bags just before filling them, e.g. on the same machine	B65B 1/02 , B65B 3/02 , B65B 5/022
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Forming flat bags from webs independently from packaging operations see	B31B , B31B 70/00 , B31B 2155/00
Details of filled bags connected together	B65D 33/008

B65B 43/06**from more than one web****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Forming flat bags by joining superimposed webs independently from packaging operations see	B31B , B31B 70/00 , B31B 2155/002
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B65B 43/08**Forming three-dimensional containers from sheet material****References****Informative references**

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

Making containers independently from packaging operations see the relevant groups of	B31B and its Indexing Codes
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B65B 43/123**{Feeding flat bags connected to form a series or chain}****References****Informative references**

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

Details of bags	B65D 33/00
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B65B 43/126**{Feeding carton blanks in flat or collapsed state}****Definition statement**

This place covers:

Mostly stacks of carton blanks

B65B 43/24**Breaking creases to facilitate setting-up cartons****Relationships with other classification places**

Prebreaking of creases	B31B , B31B 50/002
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B65B 43/26**Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks****References****Informative references**

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

Opening bags or boxes independently of packaging operations	B31B , B31B 50/76 , B31B 70/003
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B65B 43/36

applied pneumatically

Definition statement

This place covers:

I.e. opening bags with air jets

B65B 47/00

Apparatus or devices for forming pockets or receptacles in or from sheets, blanks, or webs, comprising essentially a die into which the material is pressed or a folding die through which the material is moved

References**Informative references**

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

Presses in general	B30B
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B65B 49/00

Devices for folding or bending wrappers around contents

Special rules of classification

The wrapping operation is additionally classified in [B65B 11/00](#)

B65B 51/00

**Devices for, or methods of, sealing or securing package folds or closures;
Devices for gathering or twisting wrappers, or necks of bags**

References**Limiting references**

This place does not cover:

Twisting wrappers in combination with wrapping in sheets of flexible material along predefined paths	B65B 11/14 , B65B 11/16 , B65B 11/24 , B65B 11/26 , B65B 11/34 , B65B 11/36 , B65B 11/44 , B65B 11/46
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Informative references

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

Closing containers after filling	B65B 7/00
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B65B 51/02

Applying adhesives or sealing liquids (activating adhesives by applying heat or pressure [B65B 51/10](#))

References**Informative references**

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

Glues in general	B05C
Applying adhesives for joining preformed parts	B29C 65/52

B65B 51/04

Applying separate sealing or securing members, e.g. clips, (applying separate lids or covers [B65B 7/28](#))

References**Limiting references**

This place does not cover:

Applying separate closure clips on sausages	A22C 11/0227 , A22C 11/125
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B65B 51/043

{Applying springy clips around bag necks}

Definition statement

This place covers:

e.g. applying clips around bread bags

B65B 51/065

{to the necks of bags}

References**Informative references**

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

Manually operable apparatus for closing bag necks	B65B 67/06
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B65B 51/10

Applying or generating heat or pressure or combinations thereof {(welding of plastics per se [B29C 65/02](#); closing plastic tube ends in general [B29C 57/10](#))}

Special rules of classification

Heat seal temperature control is additionally classified in [B65B 2051/105](#).

B65B 51/14

by reciprocating or oscillating members ([B65B 51/148](#) takes precedence)

References**Informative references**

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

Joining tools reciprocating along only one axis	B29C 66/832
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B65B 51/144

{Closing paperboard containers}

Definition statement

This place covers:

The closing of the typical TETRA PAK container.

B65B 51/148

{Hand-operated members}

References**Informative references**

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

Joining tools of hand held type	B29C 66/861
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B65B 51/16

by rotary members

References**Informative references**

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

Joining tools moving with the material to be joined	B29C 66/834
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B65B 51/18

by endless bands or chains

References**Informative references**

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

Joining tools moving with the material to be joined	B29C 66/834
Joining tools of band or belt type	B29C 66/83421

B65B 51/20

by fluid pressure acting directly on folds or on opposed surfaces, e.g. using hot-air jets (shrinking wrappers by heating [B65B 53/02](#))

References**Informative references**

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

Details of joining tools	B29C 65/10
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B65B 51/22

by friction or ultrasonic or high-frequency electrical means{, i.e. by friction or ultrasonic or induction welding}

Definition statement

This place covers:

Welding by laser for sealing or securing package closures.

References**Informative references**

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

Sonotrodes	B23K 20/00
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B65B 51/222

{by friction welding}

References**Informative references**

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

Details of friction sealing tools	B29C 65/06
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B65B 51/225

{by ultrasonic welding}

References**Informative references**

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

Details of ultrasonic sealing tools	B29C 65/08
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B65B 51/227**{by induction welding}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Details of induction sealing tools	B29C 65/36
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B65B 51/24**to produce bead seals (combined with severing by heated wires or rods
[B65B 61/10](#))****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Single flanged edge joints	B29C 66/137
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B65B 51/26**Devices specially adapted for producing transverse or longitudinal seams in webs or tubes****Special rules of classification**Documents classified here are additionally classified in groups [B65B 2220/08](#), [B65B 2220/10](#) or [B65B 2220/12](#), provided they apply.**B65B 51/28****Rollers for producing longitudinal and transverse seams simultaneously****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Making flat seams in tubular articles in general	B29C 66/4312
Joining tools moving with the material to be joined of roller/cylinder type	B29C 66/83411
Joining tools of jaw type mounted on rollers/cylinders	B29C 66/83511

B65B 51/30

Devices, e.g. jaws, for applying pressure and heat, e.g. for subdividing filled tubes (for subdividing filled tubes involving displacement of contents [B65B 9/12](#))

References**Informative references**

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

Details of heated tools	B29C 65/18
Making flat seams in tubular articles in general	B29C 66/4312

B65B 51/303

{reciprocating along only one axis}

Definition statement

This place covers:

devices moving according to box-motion.

References**Informative references**

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

Joining tools reciprocating along only one axis	B29C 66/832
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B65B 51/306

{Counter-rotating devices}

Definition statement

This place covers:

counter rotating devices along circular, oval or other paths

References**Informative references**

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

Joining tools moving with the material to be joined	B29C 66/834
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B65B 51/32**Cooling, or cooling and pressing, package closures after heat-sealing****References****Informative references**

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

Cooling articles to be packaged	B65B 63/08
Cooling joints after joining thermoplastics in general	B29C 66/0342

B65B 53/00**Shrinking wrappers, containers, or container covers during or after packaging****References****Informative references**

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

Bundles of articles in shrink foil	B65D 71/08
Articles in shrink foil	B65D 75/002

B65B 55/00

Preserving, protecting, or purifying packages or package contents in association with packaging (by packaging under special atmospheric or gaseous conditions [B65B 31/00](#); devices for placing protecting sheets, plugs, or wads over contents [B65B 61/22](#); if not restricted to packaging [A23L](#), [A61L](#))

References**Limiting references**

This place does not cover:

Devices for placing protecting sheets, plugs, or wads over contents	B65B 61/22
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Informative references

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

Packaging under special atmospheric or gaseous conditions	B65B 31/00
Sterilising foodstuffs or beverages in general	A23L
Preserving, protecting or purifying in general (i.e. sterilising)	A61L

B65B 55/02**Sterilising, e.g. of complete packages****Definition statement***This place covers:*

Sterilising of complete and incomplete packages

B65B 55/025**{Packaging in aseptic tunnels}****References****Limiting references***This place does not cover:*

Aseptic filling of bottles	B67C 7/0073
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B65B 55/027**{Packaging in aseptic chambers}****References****Limiting references***This place does not cover:*

Aseptic filling of bottles	B67C 7/0073
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B65B 55/04**Sterilising wrappers or receptacles prior to, or during, packaging {(sterilising bottles [B67C 7/00](#))}****Definition statement***This place covers:*

Sterilising wrappers, or receptacles such as bags, cartons, cups, etc. Also sterilising of bottles as long as the sterilisation does not take place in combination with filling and/or closing of bottles.

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

Sterilising of bottles in combination with filling and/or closing of bottles, specially the mechanical details, e.g. conveying means, bottle carrying means, etc, and/or the combination with some form of subsequent process in a bottle filling line	B67C 7/00
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Informative references

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

The sterilising of bottles which mainly concerns the sterilizing media, processes, treatment and the like	A61L
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B65B 55/06

by heat

References**Informative references**

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

Details of the sterilising apparatus	A61L 2/04
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B65B 55/08

by irradiation

References**Informative references**

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

Details of the sterilising apparatus	A61L 2/08
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B65B 55/20

Embedding contents in shock-absorbing media, e.g. plastic foam, granular material

References**Limiting references**

This place does not cover:

Embedding material applied only over contents	B65B 61/22
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Informative references

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

Making cushion pads or dunnage products from paper or film	B31D 5/0039
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B65B 55/22**Immersing contents in protective liquids****References****Informative references**

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

Packaging of contact lenses	B65B 25/008
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B65B 55/24**Cleaning of, or removing dust from, containers, wrappers, or packaging{;
Preventing of fouling}****References****Informative references**

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

Cleaning machinery or conduits in general	B08B
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B65B 57/00

Automatic control, checking, warning, or safety devices (registering wrapping or container-forming material fed from rolls [B65B 41/18](#); accident-prevention measures applicable for general use [F16P](#); {factory control systems [G05B 19/418](#); operation of audible or visible signals besides this application [G08G](#)}; photoelectric cells [H01J](#), [H01L](#); such devices in general see the relevant classes)

References**Informative references**

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

Check of leak tightness	G01M 3/36
Check of material	G01N
Job scheduling, system modularity, factory control, machine resources, "recipe handling"	G05B 19/00

B65B 57/20

Applications of counting devices for controlling the feed of articles (other applications [B65B 65/08](#))

References

Informative references

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

Counting the number of articles fed/produced without controlling the feed of articles	B65B 65/08
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B65B 59/00

Arrangements to enable machines to handle articles of different sizes, to produce packages of different sizes, to vary the contents of packages or to give access for cleaning or maintenance purposes

Special rules of classification

The classification [B65B 59/00](#) is allocated in addition to a classification in one of its subgroups, if the aspect of adjustment is related to the handling or production of different sized articles

Documents classified here are additionally classified in the indexing code [B65B 2210/04](#) if relating to customised on-demand packaging.

Machines for packaging articles of different sizes wherein the machine does not undergo any active adjustment are not classified here.

B65B 59/04

Machines constructed with readily-detachable units or assemblies, e.g. to facilitate maintenance

Definition statement

This place covers:

E.g. modular machines

B65B 61/00

Miscellaneous auxiliary devices operating on sheets, blanks, webs, binding material, containers, or packages, and not otherwise provided for (operating on articles or materials to be packaged and not otherwise provided for [B65B 63/00](#))

Definition statement

This place covers:

devices and methods operating on the packaging material that are not covered by any other of the [B65B](#) main groups.

References

Informative references

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

Operations on sheets webs and blanks without a packaging operation taking place	B31B
Attaching accessories to blanks, webs, bags or boxes independently from packaging operations see the Indexing Codes of	B31B 50/81 , B31B 70/81

B65B 61/005

{for removing material by cutting}

References

Limiting references

This place does not cover:

Removing packaging material to unpack articles or materials	B65B 69/0025 , B65B 69/0033
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B65B 61/007

{Perforating strips of completed packages}

References

Limiting references

This place does not cover:

Perforating material prior to packaging	B65B 61/02
Severing/separating joined packages	B65B 61/04

B65B 61/02

for perforating, scoring{, slitting,} or applying code or date marks on material prior to packaging {(scoring ampoules [B65B 3/006](#))}

References

Limiting references

This place does not cover:

Making holes on films by laser beams, e.g. for vegetables	B23K 26/00
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Glossary of terms

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

Scoring	weakening material
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B65B 61/025**{for applying, e.g. printing, code or date marks on material prior to packaging}****Definition statement***This place covers:*

Applying marks on material prior to and during packaging, e.g. during heat sealing.

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

Printing onto bottles	B41J 3/4073
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Marking or coding articles prior to packaging	B65B 63/005
Labelling and printing of labels	B65C

B65B 61/04**for severing webs, or for separating joined packages****References****Limiting references***This place does not cover:*

Perforating strips of completed packages	B65B 61/007
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B65B 61/06**by cutting****Definition statement***This place covers:*

e.g. cutting by laser

B65B 61/182**{by applying tear-strips or tear-tapes}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Applying tear strips or strings during the manufacture of boxes or bags see	B31B , B31B 50/812 , B31B 70/812
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Packages comprising tear strips/tapes	B65D 75/66 , B65D 75/68
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B65B 61/184

{by applying tabs over discharge openings, e.g. over discharge openings defined by tear or score lines}

References

Informative references

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

Applying closure elements to bags or boxes independently from the packaging operations see	B31B , B31B 50/814 , B31B 70/813
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B65B 61/186

{by applying or incorporating rigid fittings, e.g. discharge spouts}

References

Limiting references

This place does not cover:

Making or attaching spouts to cans, tins, bottles	B21D 51/42 .
Applying spouts to boxes or bags independently from the packaging operations see	B31B , B31B 50/84 , B31B 70/84

B65B 61/188

{by applying or incorporating profile-strips, e.g. for reclosable bags}

References

Limiting references

This place does not cover:

Making bags having interengaging profile-strips see	B31B , B31B 70/8131
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Informative references

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

Slide fastener details	A44B 19/00
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B65B 61/20

for adding cards, coupons, or other inserts to package contents {, e.g. for adding or applying accessories or inserts to the inside or the outside of a container} (adding unpacking elements [B65B 61/18](#); labelling [B65C](#))

References**Informative references**

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

Attaching articles to cards, sheets or other carriers	B65B 15/00
Devices for inserting documents into envelopes	B43M 3/00
Adding insertions between pallet layers	B65G 57/005

B65B 61/22

for placing protecting sheets, plugs, or wads over contents, e.g. cotton-wool in bottles of pills

References**Limiting references**

This place does not cover:

Embedding contents in shock absorbing media	B65B 55/20
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B65B 61/24

for shaping or reshaping completed packages

Definition statement

This place covers:

e.g. completely closed packages.

References**Informative references**

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

Shaping not yet completed packages on form fill seal (FFS)	B65B 9/2049
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B65B 61/26

for marking or coding completed packages

References**Limiting references**

This place does not cover:

Coding by applying a label (labelling)	B65C
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Informative references

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

Printing in general	B41J , B41F
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B65B 63/00

Miscellaneous auxiliary devices operating on articles or materials to be packaged and not otherwise provided for (operating on sheets, blanks, webs, binding material, or packages, and not otherwise provided for [B65B 61/00](#))

Definition statement

This place covers:

All devices and methods operating on the article/material to be packaged that are not covered by any other of the [B65B](#) main groups.

B65B 63/005

{for marking or coding articles prior to packaging}

References**Informative references**

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

Applying code or date marks on packaging material prior to packaging	B65B 61/025
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B65B 63/026

{for compressing by feeding articles through a narrowing space}

Definition statement

This place covers:

E.g. feeding through converging belts.

B65B 63/045

{for folding garments, e.g. stockings, shirts}

Definition statement

This place covers:

Packaging garments in combination with folding.

References**Informative references**

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

Packaging folded articles other than garments	B65B 25/20
Folding of garments without packaging	D06F 89/00

B65B 63/08**for heating or cooling articles or materials to facilitate packaging****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Cooling package closures after heat sealing	B65B 51/32
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B65B 65/00**Details peculiar to packaging machines and not otherwise provided for;
Arrangements of such details****Definition statement***This place covers:*All details of the packaging machine that are not covered by any other of the [B65B](#) main groups.**B65B 65/003****{Packaging lines, e.g. general layout}****Definition statement***This place covers:*

Packaging lines of special shape, space reducing layouts, etc.

B65B 65/06**coated or treated with anti-friction or anti-sticking materials, e.g.
polytetrafluoroethylene****Definition statement***This place covers:*

treating with a anti-friction material as well as with a friction enhancing material

B65B 65/08**Devices for counting or registering the number of articles handled, or the
number of packages produced by the machine****References****Limiting references***This place does not cover:*

Controlling number of articles fed by counting them	B65B 57/20
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B65B 67/00**Apparatus or devices facilitating manual packaging operations; Sack holders****Definition statement**

This place covers:

Manual packaging operations as well as sack holders for both manual and automatic packaging operations.

B65B 67/06**Manually-operable devices for closing bag necks, by applying and securing lengths of string, wire or tape****References****Informative references**

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

Devices for closing bag necks	B65B 51/065
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B65B 67/08**Wrapping of articles****References****Informative references**

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

Manual strapping of articles	B65B 13/025
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B65B 67/085**{using hand-held dispensers for stretch films}****References****Informative references**

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

Constructional details of packaging material holders for coiled, wound or folded material	B65H 75/04
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B65B 67/12

Sack holders, i.e. stands or frames with means for supporting sacks in the open condition to facilitate filling with articles or materials {(nozzles, funnels or guides adapted to support sacks [B65B 39/06](#))}

References**Informative references**

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

Sack holders on hand carts	B62B 1/266 , B62B 3/106
Refuse receptacles	B65F 1/00

B65B 67/1244

{characterised by mechanisms for temporarily closing the mouth of the sack, e.g. pedal-operated ([B65B 67/1211](#), [B65B 67/1255](#) take precedence; final closing or sealing of sacks [B65B 7/02](#), [B65B 51/00](#))}

References**Informative references**

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

Means for gathering, closing or sealing sacks	B65B 2067/1283
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B65B 67/1266

{specially adapted for storing or dispensing sacks from a supply}

References**Informative references**

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

Shopping bag holders on check-out counters	A47F 9/042
Shopping bag holders per se, not in combination with means for supporting bag in open condition	A47F 13/085

B65B 67/1277

{for dispensing flexible tubular material gathered up in the shape of a ring}

References**Informative references**

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

Preformed tubular webs stored on filling nozzles	B65B 9/15 , B65B 9/18
Refuse receptacles with means for storing bags	B65F 1/062

B65B 69/00

Unpacking of articles or materials, not otherwise provided for

References**Limiting references**

This place does not cover:

Unpacking bottles	B65B 21/00
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Informative references

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

Counting, sorting coins	G07D
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B65B 69/0033

{by cutting ([B65B 69/0008](#)-[B65B 69/0025](#) take precedence)}

References**Limiting references**

This place does not cover:

Opening or contents-removing devices added or incorporated during package manufacture	B65D 75/58
For tetraeders	B67B 7/30

B65B 69/005

{by expelling contents, e.g. by squeezing the container}

References**Informative references**

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

Pliable tubular containers with auxiliary devices for expelling contents	B65D 35/28
Large containers with deformable internal walls facilitating emptying	B65D 88/62

B65B 69/0058

{Solid contents}

Definition statement

This place covers:

e.g. pressing tablets from a blister

References

Informative references

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

Containers with special means for dispensing tablets from a blister web	B65D 83/0463
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B65B 69/0066

{Heating materials to facilitate their unpacking}

References

Limiting references

This place does not cover:

Emptying large containers with use of heat	B65D 88/74
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Informative references

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

Heating and cooling of liquids to be transferred	B67D 7/80
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B65B 69/0075

{Emptying systems for flexible intermediate bulk containers [FIBC]}

References

Informative references

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

Flexible large containers	B65D 88/16
Methods or devices for emptying bunkers, hoppers, tanks	B65G 65/30
Preventing escape of dust	B65G 69/18

Glossary of terms

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

FIBC	big bag
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