B67B

APPLYING CLOSURE MEMBERS TO BOTTLES JARS, OR SIMILAR CONTAINERS; OPENING CLOSED CONTAINERS (opening or closing devices attached to, or incorporated in, containers or container closures B65D)

Definition statement

This place covers:
Closing bottles or jars by applying:
- Stoppers;
- caps
- protective or decorative covers to closures;
- wire to secure bottle closures;

Devices for opening closed containers being hand- or power operated.

Apparatuses for applying closures and/or covers (of closures) to gas bottles.

References

Limiting references

This place does not cover:

| Opening or closing test tubes in laboratory (see e.g. SA850578) | G01N 35/00, G01N 2035/0405 |
| Devices for transferring samples to, in, or from, the analysis apparatus with means for piercing stoppers or septums | G01N 35/1079 |

Informative references

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

| Devices for breaking closed containers | B01F 15/0205, A61J 1/2089 |
| Manufacturing of bottle cork safety cages or muzzles | B21F 45/04 |
| Apparatus for cutting in general | B26F 1/00 |
| Applying plugs or threadless stoppers | B65B 7/2821 |
| Inserting and rotating screw stoppers | B65B 7/2828 |
| Details related to the filling gas bottles | F17C 13/00 |

B67B 1/00

Closing bottles, jars or similar containers by applying stoppers (stoppers per se B65D 39/00)

Definition statement

This place covers:
Feeding stoppers.

Pretreatment of stoppers.
Inserting threadless stoppers.

Inserting and rotating screw stoppers.

Securing stoppers.

Inserting disc closures.

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Mechanical details</th>
<th>B67B 1/03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical details related to treatment of cork</td>
<td>B27K 7/00</td>
</tr>
</tbody>
</table>

Informative references

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

<table>
<thead>
<tr>
<th>Applying plugs or threadless stoppers</th>
<th>B65B 7/2821</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closing containers other than bottle- or jar-type containers</td>
<td>B65B 7/2821, B65B 7/2828, B65B 7/2835</td>
</tr>
<tr>
<td>Inserting and rotating screw stoppers</td>
<td>B65B 7/2828</td>
</tr>
<tr>
<td>Orienting and/or conveying of caps in general</td>
<td>B65G 47/14</td>
</tr>
<tr>
<td>Opening or closing test tubes in laboratory (see e.g. SA850578)</td>
<td>Q01N 35/00</td>
</tr>
</tbody>
</table>
B67B 1/005
{Feeding stoppers (in general B65G)}

Definition statement
This place covers:

Illustrative example of subject matter classified in this
B67B 1/03

Pretreatment of stoppers, e.g. cleaning, steaming, heating, impregnating or coating; Applying resilient rings to stoppers (mechanical working of cork B27J 5/00)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 1/04
by inserting threadless stoppers, e.g. corks

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
B67B 1/06
by inserting and rotating screw stoppers

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
B67B 1/08

Securing stoppers, e.g. swing stoppers, which are held in position by associated pressure-applying means coacting with the bottle neck

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 1/10
by inserting disc closures

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.

B67B 3/00
Closing bottles, jars or similar containers by applying caps (caps per se B65D 41/00)

Definition statement
This place covers:
Pretreatment of caps.
Applying marks to caps.
Applying:
• Flanged caps, e.g. crown corks, by deformation of flanges;
• preformed threaded caps;
• snap-on caps.
Means for applying caps under vacuum Applications of control, warning and safety in capping machinery.
References

Limiting references

This place does not cover:

| Making closures, e.g. crown caps, screw caps                                      | B21D 51/44 |

Informative references

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

| Inserting and rotating preformed threaded caps                                   | B65B 7/2835 |
| Opening or closing test tubes in laboratory (see e.g. SA850578)                   | G01N 35/00, G01N 2035/0405 |

B67B 3/003

{Pretreatment of caps, e.g. cleaning, steaming, heating or sterilizing}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 3/006

{Applying date marks, code marks, or the like, to caps during capping (applying marks to labels B65C 9/46)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 3/02

by applying flanged caps, e.g. crown caps, and securing by deformation of flanges

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

FIG. 5

FIG. 6
B67B 3/20

by applying and rotating preformed threaded caps (forming threads in situ by resilient deforming means B67B 3/16, by rotary capping heads B67B 3/18)

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 3/2006
{using manually-controlled or manually operated devices}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 3/202
{using friction means for screwing the caps, e.g. belts or guides (B67B 3/2026, B67B 3/2033 take precedence)}

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 3/2026
{comprising stationary capping heads}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
**B67B 3/2033**

{comprising carousel co-rotating capping heads}

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this group.
Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
**B67B 3/2046**

{using friction means for screwing the caps, e.g. belts or wheels (*B67B 3/2053 takes precedence*)}

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this group.
B67B 3/2053
{comprising capping heads}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 3/206
{Means for preventing rotation of the container or cap}

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 3/2066
{Details of capping heads (B67B 3/2073 takes precedence)}

Definition statement

*This place covers:*

Illustrative example of subject matter classified in this group.

FIG 2
**B67B 3/2073**

{comprising torque limiting means (torque limiters in wrenches or screwdrivers B25B 23/14; couplings or clutches per se F16D)}

**Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.

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**References**

**Informative references**

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

| Permanent magnetic clutches | H02K 49/10 |
B67B 3/22
by applying snap-on caps

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
B67B 3/24

Special measures for applying and securing caps under vacuum

Definition statement

*This place covers:*

Illustrative example of subject matter classified in this group.
B67B 3/26
Applications of control, warning, or safety devices in capping machinery

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 3/28
Mechanisms for causing relative movement between bottle or jar and capping head

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.

B67B 5/00
Applying protective or decorative covers to closures; Devices for securing bottle closures with wire (infant feeding teats with means for fastening to bottles A61J 11/04)

Definition statement
This place covers:
Applying protective or decorative covers to closures.
Securing bottle closures with wire.

References
Limiting references
This place does not cover:

| Manufacturing of bottle cork safety cages or muzzles | B21F 45/04 |
B67B 5/03
Applying protective or decorative covers to closures, e.g. by forming in situ

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
**B67B 5/06**

Devices for securing bottle closures with wire (**B67B 1/08** takes precedence)

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this group.

**B67B 6/00**

Closing bottles, jars or similar containers by applying closure members, not provided for in groups **B67B 1/00 - B67B 5/00**

**Special rules of classification**

This main group has been created to bring the scheme in line with the IPC but has not been used so far (July 2011).

**B67B 7/00**

Hand- or power-operated devices for opening closed containers (nail pullers or extractors **B25C 11/00**; attached to, or incorporated in, containers or container closures (**B65D 75/58, B65D 77/30**))

**Definition statement**

*This place covers:*

Devices for removing:
- Stoppers;
- disc-closures;
- tightly fitting lids or covers;
• threaded caps;
• vacuum seals.

Devices for piercing holes in closed containers
Device for cutting open closed containers operated by hand
Device for cutting open closed containers power operated
Devices for engaging elements for opening closed containers by tearing
Devices for removing barrel bungs
Combination tools for opening several different closed containers
Devices for opening closed containers by means of breaking.

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nail pullers or extractors</td>
<td>B25C 11/00</td>
</tr>
<tr>
<td>Devices attached to, or incorporated in, containers or container closures</td>
<td>B65D 75/58, B65D 77/30</td>
</tr>
</tbody>
</table>

Informative references

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

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices for breaking closed containers, see also</td>
<td>B01F 15/0205,</td>
</tr>
<tr>
<td></td>
<td>A61J 1/2089</td>
</tr>
<tr>
<td>Apparatus for cutting in general:</td>
<td>B26F 1/00</td>
</tr>
<tr>
<td>Devices for expelling or dispensing solid content, e.g. pills, from blister packs</td>
<td>B65B 69/0058</td>
</tr>
</tbody>
</table>

Special rules of classification

Groups B67B 7/24 - B67B 7/92 are based on IPC3.
B67B 7/02
for removing stoppers

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.

U.S. Patent April 19, 1977 4,018,110

U.S. Patent Aug. 6, 1985 Sheet 2 of 2 4,532,831
B67B 7/04
Cork-screws

References

Informative references

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

Details of cork screws, cork screws that do not fit in any of the subgroups  B67B 7/44

B67B 7/0411
{without supporting means for assisting the pulling action}

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
**B67B 7/0423**

(of wine-waiter, i.e. sommelier type)

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this group.

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**B67B 7/12**

for removing disc-closures

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this group.
References

Informative references

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

| Needs to be cleaned in combination with | B67B 7/14 |
B67B 7/14

for removing tightly-fitting lids or covers, e.g. of shoe-polish tins, by gripping and rotating

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
References

Informative references

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

Needs to be cleaned in combination with B67B 7/12
B67B 7/16
for removing flanged caps, e.g. crown caps

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.

FIG. 17

FIG. 18

FIG. 19
B67B 7/18
for removing threaded caps (B67B 7/14 takes precedence; wrenches B25B 13/00)

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/20
for breaking vacuum seals between lids or covers and bodies of preserving jars, e.g. by wedge action

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/24
{Hole-piercing devices}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
References

Informative references

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

| Devices for transferring samples to, in, or from, the analysis apparatus with means for piercing stoppers or septums | G01N 35/1079 |
B67B 7/26
(combined with spouts)

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/28
{and associated with receptacle hodlers}

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/30

{Hand-operated cutting devices}

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.

B67B 7/32

{propelled by rotary gears or wheels around periphery of container}

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
Special rules of classification
The cutter MUST be rigidly fixed to the tool.

B67B 7/34
{with rotatable cutters}

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.

Special rules of classification
The cutter wheel MUST rotate.
B67B 7/36
(adapted to be mounted on walls)

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/38

{Power-operated cutting devices (machines for domestic use with a plurality of
interchangeable units A47J 43/06, A47J 44/00)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 7/40

Devices for engaging tags, strips, or tongues for opening by tearing, e.g. slotted keys for opening sardine tins

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 7/403
{adapted for engaging the ring of a pull tab for opening an aperture}

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/406
(and subsequently tearing off the top of the can)

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/42
Devices for removing barrel bungs

Definition statement
This place covers:
Illustrative example of subject matter classified in this group.
B67B 7/44

Combination tools, e.g. comprising cork-screws, can piercers, crowncap removers (combinations of opening devices with cutting tools B26; with devices serving other purposes, see appropriate subclasses, e.g. B25F; B43K 29/00)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.
B67B 7/92
by breaking, e.g. for ampoules

Definition statement

This place covers:
Illustrative example of subject matter classified in this group.

References

Informative references

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

Devices for breaking closed containers

B01F 15/0205, A61J 1/2089