

**ECLA****EUROPEAN CLASSIFICATION****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)****[N: WARNING**

The following IPC groups are not used in the internal ECLA classification scheme. Subject-matter covered by these groups is classified in the following ECLA groups:

[B67B7/46](#) covered by [B67B7/30](#) to [B67B7/38B](#)

[B67B7/48](#) to [B67B7/52](#) covered by [B67B7/24](#), [B67B7/26](#), [B67B7/28](#)

[B67B7/54](#) to [B67B7/90](#) covered by [B67B7/30](#) to [B67B7/38B](#)

**]**

**B67B1/00**

**Closing bottles, jars or similar containers by applying stoppers** (stoppers per se [B65D39/00](#))[[C1012](#)]

**B67B1/00B**

- **[N: Feeding stoppers (in general [B65G](#))]**

**B67B1/03**

- Pretreatment of stoppers, e.g. cleaning, steaming, heating, impregnating or coating; Applying resilient rings to stoppers ([mechanical working of cork \[B27J5/00\]\(#\)](#)) [[N9410](#)]

**B67B1/04**

- by inserting threadless stoppers, e.g. cork

**B67B1/04B**

- • **[N: using hand operated devices]** [[N0203](#)]

**B67B1/06**

- by inserting and rotating screw stoppers

**B67B1/08**

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

**B67B1/10**

- by inserting disc closures [[N9410](#)]

**B67B3/00**

**Closing bottles, jars or similar containers by applying caps** (caps per se [B65D41/00](#))[[C1012](#)]

**B67B3/00B**

- **[N: Pretreatment of caps, e.g. cleaning, steaming, heating or sterilizing]** [[N0710](#)]

**B67B3/00D**

- **[N: Applying date marks, code marks, or the like, to caps during capping (applying marks to labels [B65C9/46](#))]** [[N0203](#)]

**B67B3/02**

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

**B67B3/02B**

- • **[N: using additional means for securing the cap, e.g. adhesives]** [[N0203](#)]

**B67B3/02D**

- • **[N: the caps being made of thermoplastic material ([B67B3/02B](#) takes precedence)]** [[N0203](#)]

**B67B3/04**

- • Cutting caps from strip material in capping machines ([devices for registering moving strip material \[B65H23/00\]\(#\)](#))

**B67B3/06**

- • Feeding caps to capping heads [[C9410](#)]

**B67B3/06B**

- • • **[N: the caps having an asymmetric footprint, e.g. comprising a gripping lip]**

- N0203]
- B67B3/062 . . . from a magazine [N: (B67B3/06B takes precedence)] [C0203]
  - B67B3/064 . . . from a hopper [N: (B67B3/06B takes precedence)] [C0203]
  - B67B3/064B . . . . [N: with means for orientating the caps to a position ready to be applied to the container] [N0203]
  - B67B3/10 . . Capping heads for securing caps [N: (B67B3/02B takes precedence)] [C0203]
  - B67B3/12 . . . characterised by being movable axially relative to cap to deform flanges thereof, e.g. to press projecting flange rims inwardly [C9410]
  - B67B3/14 . . . characterised by having movable elements, e.g. hinged fingers, for applying radial pressure to the flange of the cap (B67B3/16, B67B3/18 take precedence) [C9410]
  - B67B3/16 . . . characterised by having resilient deforming elements, e.g. resilient sleeves or collars (B67B3/18 takes precedence) [C9410]
  - B67B3/18 . . . characterised by being rotatable, e.g. for forming screw threads in situ [C9410]
  - B67B3/20 . by applying and rotating preformed threaded caps (forming threads in situ by resilient deforming means B67B3/16, by rotary capping heads B67B3/18) [C1012]
  - B67B3/20C . . [N: using manually-controlled or manually operated devices] [N1012]
  - B67B3/20F . . [N: by carousel-type capping machines] [N1012]
  - B67B3/20F2 . . . [N: using friction means for screwing the caps, e.g. belts or guides (B67B3/20F4, B67B3/20F6 take precedence)] [N1012]
  - B67B3/20F4 . . . [N: comprising stationary capping heads] [N1012]
  - B67B3/20F6 . . . [N: comprising carousel co-rotating capping heads] [N1012]
  - B67B3/20G . . [N: Linear-type capping machines] [N1012]
  - B67B3/20G2 . . . [N: using friction means for screwing the caps, e.g. belts or wheels (B67B3/20G4 takes precedence)] [N1012]
  - B67B3/20G4 . . . [N: comprising capping heads] [N1012]
  - B67B3/20H . . [N: Means for preventing rotation of the container or cap] [N1012]
  - B67B3/20K . . [N: Details of capping heads (B67B3/20L takes precedence)] [N1012]
  - B67B3/20L . . [N: comprising torque limiting means (torque limiters in wrenches or screwdrivers B25B23/14; couplings or clutches per se F16D)] [N1012]
  - B67B3/20L2 . . . [N: Electrical means responsive to the torque applied and acting on motor control means, e.g. strain gauges or power measurement means (B67B3/20L6 takes precedence)] [N1012]
  - B67B3/20L4 . . . [N: Magnetic or electromagnetic clutches] [N1012]
  - B67B3/20L6 . . . [N: whereby the applied torque limit is varied] [N1012]
  - B67B3/22 . by applying snap-on caps
  - B67B3/24 . Special measures for applying and securing caps under vacuum
  - B67B3/26 . Applications of control, warning, or safety devices in capping machinery
  - B67B3/26B . . [N: Devices for controlling the tightening of threaded caps, e.g. testing the release torque (torque testers in general G01L5/00)]
  - B67B3/26D . . [N: Devices for controlling the caps] [N0404]
  - B67B3/26D2 . . . [N: positioning of the caps] [N0404]
  - B67B3/26D4 . . . [N: presence of a cap] [N0404]

- B67B3/26D6 . . . [N: positioning of the cap-label] [N0404]
- B67B3/26F . . [N: devices for avoiding damage to the closing machine] [N0404]
- B67B3/28 . Mechanisms for causing relative movement between bottle or jar and capping head [N9410]
- B67B5/00** **Applying protective or decorative covers to closures; Devices for securing bottle closures with wire** (infant feeding teats with means for fastening to bottles [A61J11/04](#)) [C9410]
- B67B5/03 . Applying protective or decorative covers to closures, e.g. by forming in situ [C9410]
- B67B5/03B . . [N: Dies for securing overcaps] [N9410]
- B67B5/03C . . [N: the covers being elastic] [N0008]
- B67B5/03D . . [N: the covers being heat-shrinkable] [N0008]
- B67B5/03E . . [N: the covers being applied wet, whereby shrinkage occurs on drying] [N0008]
- B67B5/05 . . by applying liquids, e.g. by dipping
- B67B5/06 . Devices for securing bottle closures with wire ([B67B1/08](#) takes precedence) [C9410]
- B67B6/00** **Closing bottles, jars or similar containers by applying closure members, not provided for in groups [B67B1/00](#) - [B67B5/00](#)** [N1012]
- B67B7/00** **Hand- or power-operated devices for opening closed containers** (nail pullers or extractors [B25C11/00](#); [N: for expelling solid content, e.g. pills, from blister packs [B65B67/00D1](#)]; attached to, or incorporated in, containers or container closures [B65D](#); [N: dispensers for pills from blister packs [B65B69/00D1](#)]) [C1012]
- B67B7/02 . for removing stoppers
- B67B7/04 . . Cork-screws
- B67B7/04B . . . [N: Power-operated cork-screws, e.g. operated by an electric motor]
- B67B7/04D . . . [N: without supporting means for assisting the pulling action] [N0212]
- B67B7/04F . . . [N: with supporting means for assisting the pulling action] [N0212]
- B67B7/04F2 . . . . [N: of wine-waiter, i.e. sommelier type] [N0212]
- B67B7/04F2B . . . . [N: having means for varying the effective lever arm length] [N0212]
- B67B7/04F4 . . . . [N: with a pantograph extracting mechanism] [N0212]
- B67B7/04F6 . . . . [N: whereby the supporting means abut around the whole periphery of the neck of the bottle] [N0212]
- B67B7/04F8 . . . . [N: whereby the supporting means abut around parts of the periphery of the neck of the bottle] [N0212]
- B67B7/04H . . . [N: adapted to be mounted on walls] [N0212]
- B67B7/06 . . Other cork removers
- B67B7/06B . . . [N: using one or more blades to be inserted between the cork and the inner surface of the bottle neck]
- B67B7/06C . . . [N: specially adapted for opening pressurised bottles, e.g. champagne or sparkling wine bottles]
- B67B7/08 . . . using air or gas pressure

- B67B7/10 . . with means for retrieving stoppers from the interior of the container
- B67B7/12 . for removing disc-closures
- B67B7/14 . for removing tightly-fitting lids or covers, e.g. of shoe-polish tins, by gripping and rotating
- B67B7/15 . . finger grapple type [N9410]
- B67B7/16 . for removing flanged caps, e.g. crown caps
- B67B7/16B . . [N: the removing device being formed by at least two articulated parts, e.g. pliers (B67B7/16D takes precedence)] [N9503]
- B67B7/16D . . [N: Power-operated devices] [N9503]
- B67B7/18 . for removing threaded caps (B67B7/14 takes precedence; wrenches B25B13/00) [C9410]
- B67B7/18B . . [N: power-operated] [N9502]
- B67B7/18C . . [N: by use of a flexible loop gripping the cap skirt or the container body by friction] [N9608]
- B67B7/18C1 . . . [N: the loop having an adjustable length] [N9608]
- B67B7/20 . for breaking vacuum seals between lids or covers and bodies of preserving jars, e.g. by wedge action
- B67B7/22 . . incorporating loops, e.g. of wire, which are tightened around seal
- B67B7/24 . [N: IPC3] Hole-piercing devices
- B67B7/26 . . [N: IPC3] combined with spouts
- B67B7/28 . . . [N: IPC3] and associated with receptacle holders
- B67B7/30 . [N: IPC3] Hand-operated cutting devices
- B67B7/32 . . [N: IPC3] propelled by rotary gears or wheels around periphery of container
- B67B7/34 . . [N: IPC3] with rotatable cutters
- B67B7/36 . . [N: IPC3] adapted to be mounted on walls
- B67B7/38 . [N: IPC3] Power-operated cutting devices (machines for domestic use with a plurality of interchangeable units A47J43/06, A47J44/00)
- B67B7/38B . . [N: specially adapted to be hand-held]
- B67B7/40 . Devices for engaging tags, strips, or tongues for opening by tearing, e.g. slotted keys for opening sardine tins
- B67B7/40B . . [N: adapted for engaging the ring of a pull tab for opening an aperture] [N9902]
- B67B7/40B2 . . . [N: and subsequently tearing off the top of the can] [N9902]
- B67B7/42 . Devices for removing barrel bungs
- B67B7/44 . Combination tools, e.g. comprising cork-screws, can piercers, crown cap removers (combinations of opening devices with cutting tools B26; with devices serving other purposes, see appropriate subclasses, e.g. B25F; B43K29/00)
- B67B7/92 . by breaking, e.g. for ampoules