

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](#)

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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, crowncap 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