

CPC**COOPERATIVE PATENT 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)

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:
[B67B 7/46](#) covered by [B67B 7/30](#) to [B67B 7/385](#)
[B67B 7/48](#) to [B67B 7/52](#) covered by [B67B 7/24](#), [B67B 7/26](#), [B67B 7/28](#)
[B67B 7/54](#) to [B67B 7/90](#) covered by [B67B 7/30](#) to [B67B 7/385](#)

B67B 1/00

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

B67B 1/005

- . {Feeding stoppers (in general [B65G](#))}

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](#))

B67B 1/04

- . by inserting threadless stoppers, e.g. cork

B67B 1/045

- .. {using hand operated devices}

B67B 1/06

- . by inserting and rotating screw stoppers

B67B 1/08

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

B67B 1/10

- . by inserting disc closures

B67B 3/00

Closing bottles, jars or similar containers by applying caps (caps per se [B65D 41/00](#))

B67B 3/003

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

B67B 3/006

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

B67B 3/02

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

B67B 3/023

- .. {using additional means for securing the cap, e.g. adhesives}

B67B 3/026

- .. {the caps being made of thermoplastic material ([B67B 3/023](#) takes precedence)}

B67B 3/04

- .. Cutting caps from strip material in capping machines (devices for registering moving strip material [B65H 23/00](#))

B67B 3/06

- .. Feeding caps to capping heads

- B67B 3/061 . . . {the caps having an asymmetric footprint, e.g. comprising a gripping lip}
- B67B 3/062 . . . from a magazine {(B67B 3/061 takes precedence)}
- B67B 3/064 . . . from a hopper {(B67B 3/061 takes precedence)}
- B67B 3/0645 {with means for orientating the caps to a position ready to be applied to the container}
- B67B 3/10 . . Capping heads for securing caps {(B67B 3/023 takes precedence)}
- B67B 3/12 . . . characterised by being movable axially relative to cap to deform flanges thereof, e.g. to press projecting flange rims inwardly
- B67B 3/14 . . . characterised by having movable elements, e.g. hinged fingers, for applying radial pressure to the flange of the cap (B67B 3/16, B67B 3/18 take precedence)
- B67B 3/16 . . . characterised by having resilient deforming elements, e.g. resilient sleeves or collars (B67B 3/18 takes precedence)
- B67B 3/18 . . . characterised by being rotatable, e.g. for forming screw threads in situ
- 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)
- B67B 3/2006 . . { using manually-controlled or manually operated devices}
- B67B 3/2013 . . { by carousel-type capping machines}
- B67B 3/202 . . . { using friction means for screwing the caps, e.g. belts or guides (B67B 3/2026, B67B 3/2033 take precedence)}
- B67B 3/2026 . . . { comprising stationary capping heads}
- B67B 3/2033 . . . { comprising carousel co-rotating capping heads}
- B67B 3/204 . . { Linear-type capping machines}
- B67B 3/2046 . . . { using friction means for screwing the caps, e.g. belts or wheels (B67B 3/2053 takes precedence)}
- B67B 3/2053 . . . { comprising capping heads}
- B67B 3/206 . . { Means for preventing rotation of the container or cap}
- B67B 3/2066 . . { Details of capping heads (B67B 3/2073 takes precedence)}
- B67B 3/2073 . . { comprising torque limiting means (torque limiters in wrenches or screwdrivers B25B 23/14; couplings or clutches per se F16D)}
- B67B 3/208 . . . { Electrical means responsive to the torque applied and acting on motor control means, e.g. strain gauges or power measurement means (B67B 3/2093 takes precedence)}
- B67B 3/2086 . . . { Magnetic or electromagnetic clutches}
- B67B 3/2093 . . . { whereby the applied torque limit is varied}
- B67B 3/22 . . by applying snap-on caps
- B67B 3/24 . . Special measures for applying and securing caps under vacuum
- B67B 3/26 . . Applications of control, warning, or safety devices in capping machinery
- B67B 3/261 . . {Devices for controlling the tightening of threaded caps, e.g. testing the release torque (torque testers in general G01L 5/00)}
- B67B 3/262 . . {Devices for controlling the caps}
- B67B 3/264 . . . {positioning of the caps}
- B67B 3/265 . . . {presence of a cap}

- B67B 3/267 . . . {positioning of the cap-label}
- B67B 3/268 . . {devices for avoiding damage to the closing machine}
- B67B 3/28 . Mechanisms for causing relative movement between bottle or jar and capping head
- 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](#))
- B67B 5/03 . Applying protective or decorative covers to closures, e.g. by forming in situ
- B67B 5/032 . . {Dies for securing overcaps}
- B67B 5/034 . . {the covers being elastic}
- B67B 5/036 . . {the covers being heat-shrinkable}
- B67B 5/038 . . {the covers being applied wet, whereby shrinkage occurs on drying}
- B67B 5/05 . . by applying liquids, e.g. by dipping
- B67B 5/06 . Devices for securing bottle closures with wire ([B67B 1/08](#) takes precedence)
- B67B 6/00** **Closing bottles, jars or similar containers by applying closure members, not provided for in groups [B67B 1/00](#) - [B67B 5/00](#)**
- B67B 7/00** **Hand- or power-operated devices for opening closed containers** (nail pullers or extractors [B25C 11/00](#); { for expelling solid content, e.g. pills, from blister packs **B65B 67/00D1**; } attached to, or incorporated in, containers or container closures [B65D](#); { dispensers for pills from blister packs [B65B 69/0058](#)})
- B67B 7/02 . for removing stoppers
- B67B 7/04 . . Cork-screws
- B67B 7/0405 . . . {Power-operated cork-screws, e.g. operated by an electric motor}
- B67B 7/0411 . . . {without supporting means for assisting the pulling action}
- B67B 7/0417 . . . {with supporting means for assisting the pulling action}
- B67B 7/0423 {of wine-waiter, i.e. sommelier type}
- B67B 7/0429 {having means for varying the effective lever arm length}
- B67B 7/0435 {with a pantograph extracting mechanism}
- B67B 7/0441 {whereby the supporting means abut around the whole periphery of the neck of the bottle}
- B67B 7/0447 {whereby the supporting means abut around parts of the periphery of the neck of the bottle}
- B67B 7/0452 . . . {adapted to be mounted on walls}
- B67B 7/06 . . Other cork removers
- B67B 7/063 . . . {using one or more blades to be inserted between the cork and the inner surface of the bottle neck}
- B67B 7/066 . . . {specially adapted for opening pressurised bottles, e.g. champagne or sparkling wine bottles}
- B67B 7/08 . . . using air or gas pressure
- B67B 7/10 . . with means for retrieving stoppers from the interior of the container

- B67B 7/12 . for removing disc-closures
- B67B 7/14 . for removing tightly-fitting lids or covers, e.g. of shoe-polish tins, by gripping and rotating
- B67B 7/15 . . finger grapple type
- B67B 7/16 . for removing flanged caps, e.g. crown caps
- B67B 7/162 . . {the removing device being formed by at least two articulated parts, e.g. pliers (B67B 7/164 takes precedence)}
- B67B 7/164 . . {Power-operated devices}
- B67B 7/18 . for removing threaded caps (B67B 7/14 takes precedence; wrenches B25B 13/00)
- B67B 7/182 . . {power-operated}
- B67B 7/184 . . {by use of a flexible loop gripping the cap skirt or the container body by friction}
- B67B 7/186 . . . {the loop having an adjustable length}
- B67B 7/20 . for breaking vacuum seals between lids or covers and bodies of preserving jars, e.g. by wedge action
- B67B 7/22 . . incorporating loops, e.g. of wire, which are tightened around seal
- B67B 7/24 . Hole-piercing devices
- B67B 7/26 . . combined with spouts
- B67B 7/28 . . . and associated with receptacle holders
- B67B 7/30 . Hand-operated cutting devices
- B67B 7/32 . . propelled by rotary gears or wheels around periphery of container
- B67B 7/34 . . with rotatable cutters
- B67B 7/36 . . adapted to be mounted on walls
- B67B 7/38 . Power-operated cutting devices (machines for domestic use with a plurality of interchangeable units A47J 43/06, A47J 44/00)
- B67B 7/385 . . {specially adapted to be hand-held}
- B67B 7/40 . Devices for engaging tags, strips, or tongues for opening by tearing, e.g. slotted keys for opening sardine tins
- B67B 7/403 . . {adapted for engaging the ring of a pull tab for opening an aperture}
- B67B 7/406 . . . {and subsequently tearing off the top of the can}
- B67B 7/42 . Devices for removing barrel bungs
- 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)
- B67B 7/92 . by breaking, e.g. for ampoules

B67B 2007/00 **Hand- or power-operated devices for opening closed containers** (nail pullers or extractors [B25C 11/00](#); { for expelling solid content, e.g. pills, from blister packs **B65B 67/00D1**; } attached to, or incorporated in, containers or container closures [B65D](#); { dispensers for pills from blister packs [B65B 69/0058](#)})

- B67B 2007/02 . for removing stoppers
- B67B 2007/04 . . Cork-screws
- [B67B 2007/0458](#) . . . Means for cutting sealing capsules
- [B67B 2007/0464](#) . . . Means for counting
- [B67B 2007/047](#) . . . Means for reducing friction
- [B67B 2007/0476](#) by coating the screw
- [B67B 2007/0482](#) by using roller-bearings
- [B67B 2007/0488](#) . . . Means for measuring temperature
- [B67B 2007/0494](#) . . . Means for varying the lever arm

- B67B 2007/16 . for removing flanged caps, e.g. crown caps
- [B67B 2007/166](#) . . Means for attaching the opener to fingers
- [B67B 2007/168](#) . . Means for counting

- B67B 2007/18 . for removing threaded caps ([B67B 7/14](#) takes precedence; wrenches [B25B 13/00](#))
- [B67B 2007/188](#) . . Means for attaching the opener to fingers

- B67B 2007/30 . Hand-operated cutting devices
- [B67B 2007/303](#) . . can openers
- [B67B 2007/306](#) . . . Means for counting

[B67B 2201/00](#) Indexing codes relating to constructional features of closing machines

- [B67B 2201/01](#) . Orienting closure means
- [B67B 2201/012](#) . . Stoppers
- [B67B 2201/015](#) . . . Cylindrical stoppers
- [B67B 2201/017](#) . . Caps

- [B67B 2201/03](#) . applying two closures on a container

- [B67B 2201/06](#) . Details of cap feeding devices
- [B67B 2201/065](#) . . Use of magnets

- [B67B 2201/08](#) . Aseptic features

- [B67B 2201/10](#) . Quick or easy connection means for connecting a capping head to a spindle

- [B67B 2201/12](#) . Details related to spray caps, i.e. caps comprising a pump and a tube for dispensing content from a container