

**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 CPC scheme. Subject-matter covered by these groups is classified in the following CPC 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](#)

**Guidance heading:****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 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 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 2007/166 . . Means for attaching the opener to fingers
- B67B 2007/168 . . Means for counting
- 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 2007/188 . . Means for attaching the opener to fingers
- 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 2007/303 . . can openers
- B67B 2007/306 . . . Means for counting
- 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, crown cap 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

**Guidance heading:**

**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