

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](#)

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 69/0058 ; } 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, 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 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