

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-B67B 7/385
B67B 7/48-B67B 7/52	covered by	B67B 7/24, B67B 7/26, B67B 7/28
B67B 7/54-B67B 7/90	covered by	B67B 7/30-B67B 7/385

1/00	Closing bottles, jars or similar containers by applying stoppers (stoppers per se B65D 39/00)	3/16	. . . characterised by having resilient deforming elements, e.g. resilient sleeves or collars (B67B 3/18 takes precedence)
1/005	. {Feeding stoppers (in general B65G)}		
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)	3/18	. . . characterised by being rotatable, e.g. for forming screw threads <i>in situ</i>
1/04	. by inserting threadless stoppers, e.g. cork	3/20	. by applying and rotating preformed threaded caps (forming threads <i>in situ</i> by resilient deforming means B67B 3/16 , by rotary capping heads B67B 3/18)
1/045	. . {using hand operated devices}	3/2006	. . {using manually-controlled or manually operated devices}
1/06	. by inserting and rotating screw stoppers	3/2013	. . {by carousel-type capping machines}
1/08	. Securing stoppers, e.g. swing stoppers, which are held in position by associated pressure-applying means coacting with the bottle neck	3/202	. . . {using friction means for screwing the caps, e.g. belts or guides (B67B 3/2026 , B67B 3/2033 take precedence)}
1/10	. by inserting disc closures		
3/00	Closing bottles, jars or similar containers by applying caps (caps per se B65D 41/00)	3/2026	. . . {comprising stationary capping heads}
3/003	. {Pretreatment of caps, e.g. cleaning, steaming, heating or sterilizing}	3/2033	. . . {comprising carousel co-rotating capping heads}
3/006	. {Applying date marks, code marks, or the like, to caps during capping (applying marks to labels B65C 9/46)}	3/204	. . {Linear-type capping machines}
3/02	. by applying flanged caps, e.g. crown caps, and securing by deformation of flanges	3/2046	. . . {using friction means for screwing the caps, e.g. belts or wheels (B67B 3/2053 takes precedence)}
3/023	. . {using additional means for securing the cap, e.g. adhesives}	3/2053	. . . {comprising capping heads}
3/026	. . {the caps being made of thermoplastic material (B67B 3/023 takes precedence)}	3/206	. . {Means for preventing rotation of the container or cap}
3/04	. . Cutting caps from strip material in capping machines (devices for registering moving strip material B65H 23/00)	3/2066	. . {Details of capping heads (B67B 3/2073 takes precedence)}
3/06	. . Feeding caps to capping heads	3/2073	. . {comprising torque limiting means (torque limiters in wrenches or screwdrivers B25B 23/14 ; couplings or clutches per se F16D)}
3/061	. . . {the caps having an asymmetric footprint, e.g. comprising a gripping lip}	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)}
3/062	. . . from a magazine {(B67B 3/061 takes precedence)}	3/2086	. . . {Magnetic or electromagnetic clutches}
3/064	. . . from a hopper {(B67B 3/061 takes precedence)}	3/2093	. . . {whereby the applied torque limit is varied}
3/0645	. . . . {with means for orientating the caps to a position ready to be applied to the container}	3/22	. by applying snap-on caps
3/10	. . Capping heads for securing caps {(B67B 3/023 takes precedence)}	3/24	. Special measures for applying and securing caps under vacuum
3/12	. . . characterised by being movable axially relative to cap to deform flanges thereof, e.g. to press projecting flange rims inwardly	3/26	. Applications of control, warning, or safety devices in capping machinery
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)	3/261	. . {Devices for controlling the tightening of threaded caps, e.g. testing the release torque (torque testers in general G01L 5/00)}
		3/262	. . {Devices for controlling the caps}
		3/264	. . . {positioning of the caps}
		3/265	. . . {presence of a cap}
		3/267	. . . {positioning of the cap-label}

3/268	. . {devices for avoiding damage to the closing machine}	7/14	. for removing tightly-fitting lids or covers, e.g. of shoe-polish tins, by gripping and rotating
3/28	. Mechanisms for causing relative movement between bottle or jar and capping head	7/15	. . finger grapple type
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)	7/16	. for removing flanged caps, e.g. crown caps
5/03	. Applying protective or decorative covers to closures, e.g. by forming <u>in situ</u>	7/162	. . {the removing device being formed by at least two articulated parts, e.g. pliers (B67B 7/164 takes precedence)}
5/032	. . {Dies for securing overcaps}	7/164	. . {Power-operated devices}
5/034	. . {the covers being elastic}	2007/166	. . {Means for attaching the opener to fingers}
5/036	. . {the covers being heat-shrinkable}	2007/168	. . {Means for counting}
5/038	. . {the covers being applied wet, whereby shrinkage occurs on drying}	7/18	. for removing threaded caps (B67B 7/14 takes precedence; wrenches B25B 13/00)
5/05	. . by applying liquids, e.g. by dipping	7/182	. . {power-operated}
5/06	. Devices for securing bottle closures with wire (B67B 1/08 takes precedence)	7/184	. . {by use of a flexible loop gripping the cap skirt or the container body by friction}
6/00	Closing bottles, jars or similar containers by applying closure members, not provided for in groups B67B 1/00 - B67B 5/00	7/186	. . . {the loop having an adjustable length}
7/00	Hand- or power-operated devices for opening closed containers (nail pullers or extractors B25C 11/00 ; attached to, or incorporated in, containers or container closures { B65D 75/58 , B65D 77/30 })	2007/188	. . {Means for attaching the opener to fingers}
7/02	. for removing stoppers	7/20	. for breaking vacuum seals between lids or covers and bodies of preserving jars, e.g. by wedge action
7/04	. . Cork-screws	7/22	. . incorporating loops, e.g. of wire, which are tightened around seal
7/0405	. . . {Power-operated cork-screws, e.g. operated by an electric motor}	7/24	. {Hole-piercing devices}
7/0411	. . . {without supporting means for assisting the pulling action}	7/26	. . {combined with spouts}
7/0417	. . . {with supporting means for assisting the pulling action}	7/28	. . . {and associated with receptacle hodlers}
7/0423	. . . . {of wine-waiter, i.e. sommelier type}	7/30	. {Hand-operated cutting devices}
7/0429	. . . . {having means for varying the effective lever arm length}	2007/303	. . {can openers}
7/0435	. . . . {with a pantograph extracting mechanism}	2007/306	. . . {Means for counting}
7/0441	. . . . {whereby the supporting means abut around the whole periphery of the neck of the bottle}	7/32	. . {propelled by rotary gears or wheels around periphery of container}
7/0447	. . . . {whereby the supporting means abut around parts of the periphery of the neck of the bottle}	7/34	. . {with rotatable cutters}
7/0452	. . . {adapted to be mounted on walls}	7/36	. . {adapted to be mounted on walls}
2007/0458	. . . {Means for cutting sealing capsules}	7/38	. {Power-operated cutting devices (machines for domestic use with a plurality of interchangeable units A47J 43/06 , A47J 44/00)}
2007/0464	. . . {Means for counting}	7/385	. . {specially adapted to be hand-held}
2007/047	. . . {Means for reducing friction}	7/40	. Devices for engaging tags, strips, or tongues for opening by tearing, e.g. slotted keys for opening sardine tins
2007/0476	. . . . {by coating the screw}	7/403	. . {adapted for engaging the ring of a pull tab for opening an aperture}
2007/0482	. . . . {by using roller-bearings}	7/406	. . . {and subsequently tearing off the top of the can}
2007/0488	. . . {Means for measuring temperature}	7/42	. Devices for removing barrel bungs
2007/0494	. . . {Means for varying the lever arm}	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)
7/06	. . Other cork removers	7/92	. by breaking, e.g. for ampoules
7/063	. . . {using one or more blades to be inserted between the cork and the inner surface of the bottle neck}	2201/00	Indexing codes relating to constructional features of closing machines
7/066	. . . {specially adapted for opening pressurised bottles, e.g. champagne or sparkling wine bottles}	2201/01	. Orienting closure means
7/08	. . . using air or gas pressure	2201/012	. . Stoppers
7/10	. . with means for retrieving stoppers from the interior of the container	2201/015	. . . Cylindrical stoppers
7/12	. for removing disc-closures	2201/017	. . Caps
		2201/03	. applying two closures on a container
		2201/06	. Details of cap feeding devices
		2201/065	. . Use of magnets
		2201/08	. Aseptic features
		2201/10	. Quick or easy connection means for connecting a capping head to a spindle

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- 2201/12 . Details related to spray caps, i.e. caps comprising a pump and a tube for dispensing content from a container