

Title (en)

Bottle closure device comprising a double-cap unit

Title (de)

Flaschenverschluss mit zweiteiliger Verschlusskappeneinheit

Title (fr)

Dispositif de bouchage d'une bouteille comprenant deux capuchons

Publication

EP 1380515 A1 20040114 (EN)

Application

EP 03254183 A 20030701

Priority

HK 02105056 A 20020708

Abstract (en)

A closure device (100) for a bottle (200) has a top end portion (210) including a mouth (220) atop. The device (100) has an inner cap (110) for screwing to close the mouth (220), and an outer shell (120) enclosing and supporting the cap (110). The cap (110) is separable from the shell (120). The shell (120) has a peripheral wall (122) for enclosing and surrounding the bottle top end portion (210), and includes integrally an internal inverted collar (130) surrounding and locating the cap (110). The collar (130) has a lower rim and several resiliently deformable retaining formations , (134) projecting downwardly from the rim and disposed around the cap (110). Each formation (134) includes a lateral protrusion (136) on its inner surface engaging the cap (110) by its rim through a snap action, thereby retaining the cap (110) within the shell (120). The cap (110) and shell (120) are normally used together as a double-cap, while the shell (120) can be separated for use as a cup. <IMAGE>

IPC 1-7

B65D 41/04

IPC 8 full level

B65D 41/26 (2006.01); **B65D 41/62** (2006.01)

CPC (source: EP)

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Citation (search report)

- [XA] US 4273247 A 19810616 - EARLS WILLIAM L
- [Y] US 3315830 A 19670425 - FLYNN CHARLES V
- [Y] US 5435112 A 19950725 - GOYET DANIEL [FR]
- [A] AU 548599 B2 19851219 - HORTICO AUSTRALIA PTY LTD
- [A] US 3249248 A 19660503 - METZENDORF JOSEPH L, et al
- [A] DE 4028360 A1 19920312 - TUBEX GMBH [DE]
- [A] US 4535906 A 19850820 - ROWEKAMP PATRICIA A [US]
- [A] FR 2431432 A1 19800215 - BOURDIER JEAN CLAUDE [FR]
- [A] US 2723040 A 19551108 - MEROLLE AUGUSTUS L

Cited by

FR3120355A1; IT201900009696A1; EP3034430A1; WO2009060207A1

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