



New connection on: : 29-10-2020 : 19:13:56 - Last disconnection on: : 28-10-2020 : 22:00:16

V 4.0.0.44803(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#{D201820}) (RPM D201820)

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[No database/cluster active] ..fi

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 Database: EPODOC

[EPODOC: SS 1] tamper and evident and closure and deform+ and (groove or recess) and cap and (interlock+ or snap) /ic(B65D)

An operator is missing. *ERROR(-101310)*

[SS 1] groove or recess

Results in EPODOC **3.015.212**

[SS 2] interlock+ or snap

Results in EPODOC **326.888**

[SS 3] tamper and evident and closure and deform+ and 1 and 2

Results in EPODOC **6**

[SS 4] ..li



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PN - [GB2299329](#) A 19961002

PNFP - GB2299329 B 19970402

PR - GB19960011601
19951208; GB19950025299
19921006; US19910772945
19911008; US19920830133 19920131

AP - [GB19960011601](#) 19951208

DT - *, Rep

CCI - [B65D1/023](#) ; [B65D41/0421](#) ;
[B65D41/0471](#) ; [B65D41/17](#) ;
[B65D41/34](#) ; [B65D41/3404](#) ;
[B65D41/3409](#)

CCA - [B65D2251/0015](#) ; [B65D2251/0093](#) ;
[B65D2401/15](#) ; [B65D2401/25](#) ;
[B65D2501/0081](#) ; [B65D2577/205](#)

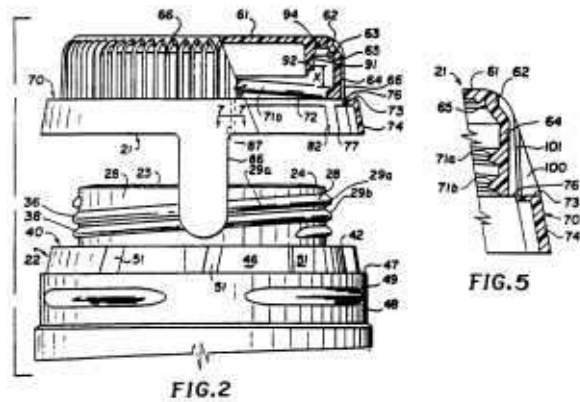
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B65D41/0471 (EP)
B65D41/17 (EP)
B65D41/34 (EP)
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B65D41/3409 (EP)

CA - B65D2251/0015 (EP)
B65D2251/0093 (EP)
B65D2401/15 (EP)
B65D2401/25 (EP)
B65D2501/0081 (EP)
B65D2577/205 (EP)

PA - (A B)
CAP SNAP CO [US]

TI - (A)
Snap on, screw off cap and
container
(B)
Snap-on screw-off cap and
container neck

AB - (A)
A **tamper-evident, snap-on**, screw-
off **closure** (21) is used for a
container neck (22) which has a
first helical thread (29) or **groove**
on an upper neck stretch portion
(28) and an external ratchet tooth
(51) on a lower, radially outset,
locking wall portion (40) .
The **closure** has an upper skirt
(62) having helical thread (71)
or **groove** mating with the first



helical thread and a downward extending skirt (70) which includes an outer skirt portion (74) and an inwardly extending shoulder (73), a frangible section (76) interconnecting the shoulder and the upper skirt portion (64). At least one vertical fin (100) is upstanding from the shoulder, preventing upward **deformation** of the lower skirt portion (74). The lower skirt portion (74) has at least one internal ratchet tooth (81) and a line of weakness (87) through the outer skirt portion and the shoulder. The lower portion skirt has a tear tab (86) which, when pulled, fractures the lower skirt at the frangible section (76).

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- PN - [GB2295145](#) A 19960522
- PNFP - GB2295145 B 19960911
- PR - GB19950011099
19921006; US19910772945
19911008; US19920830133 19920131
- AP - [GB19950025299](#) 19921006
- DT - *; Rep
- CCI - [B65D1/023](#) ; [B65D41/0421](#) ;
[B65D41/0471](#) ; [B65D41/17](#) ;
[B65D41/34](#) ; [B65D41/3404](#) ;
[B65D41/3409](#)
- CCA - [B65D2251/0015](#) ; [B65D2251/0093](#) ;
[B65D2401/15](#) ; [B65D2401/25](#) ;
[B65D2501/0081](#) ; [B65D2577/205](#)
- CI - B65D1/023 (EP)
- B65D41/0421 (EP)
- B65D41/0471 (EP)
- B65D41/17 (EP)
- B65D41/34 (EP)
- B65D41/3404 (EP)
- B65D41/3409 (EP)
- CA - B65D2251/0015 (EP)
- B65D2251/0093 (EP)
- B65D2401/15 (EP)
- B65D2401/25 (EP)
- B65D2501/0081 (EP)

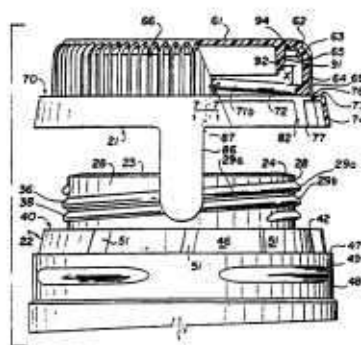


FIG. 2

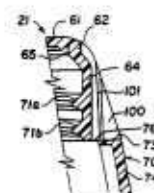


FIG. 5

	- B65D2577/205 (EP)
PA	- (A B) CAP SNAP CO [US]
TI	- (A) Snap on, screw off cap and container neck - (B) Snap-on , screw-off cap and container neck
AB	- (A) A tamper-evident, snap-on , screw-off closure (21) is used for a container neck (22) which has a first helical thread (29) or groove on an upper neck stretch portion (28) and an external ratchet tooth (51) on a lower, radially outset, locking wall portion (40) . The closure has an upper skirt (62) having helical thread (71) or groove mating with the first helical thread and a downward extending skirt (70) which includes an outer skirt portion (74) and an inwardly extending shoulder (73), a frangible section (76) interconnecting the shoulder and the upper skirt portion (64). At least one vertical fin (100) is upstanding from the shoulder, preventing upward deformation of the lower skirt portion (74). The lower skirt portion (74) has at least one internal ratchet tooth (81) and a line of weakness (87) through the outer skirt portion and the shoulder. The lower portion skirt has a tear tab (86) which, when pulled, fractures the lower skirt at the frangible section (76). <IMAGE>

PN - [GB2289044](#) A 19951108

PNFP - GB2289044 B 19960911

PR - GB19940023499
19921006; US19910772945
19911008; US19920830133 19920131

AP - [GB19950011099](#) 19921006

DT - *; Rep

CCI - [B65D1/023](#) ; [B65D41/0421](#) ;
[B65D41/0471](#) ; [B65D41/17](#) ;
[B65D41/34](#) ; [B65D41/3404](#) ;
[B65D41/3409](#)

CCA - [B65D2251/0015](#) ; [B65D2251/0093](#) ;
[B65D2401/15](#) ; [B65D2401/25](#) ;
[B65D2401/35](#) ; [B65D2501/0081](#) ;
[B65D2577/205](#)

CI - B65D1/023 (EP)
B65D41/0421 (EP)
B65D41/0471 (EP)
B65D41/17 (EP)
B65D41/34 (EP)
B65D41/3404 (EP)
B65D41/3409 (EP)

CA - B65D2251/0015 (EP)
B65D2251/0093 (EP)
B65D2401/15 (EP)
B65D2401/25 (EP)
B65D2401/35 (EP)
B65D2501/0081 (EP)
B65D2577/205 (EP)

PA - (A B)
CAP SNAP CO [US]

TI - (A)
Snap on, screw off cap and
container neck
(B)
Snap-on, screw-off cap and
container neck

AB - (A)
A **tamper-evident, snap-on**, screw-
off **closure** (21) is used for a
container neck (22) which has a
first helical thread (29) or **groove**
on an upper neck stretch portion
(28) and an external ratchet tooth
(51) on a lower, radially outset,
locking wall portion (40) .
The **closure** has an upper skirt
(62) having helical thread (71)

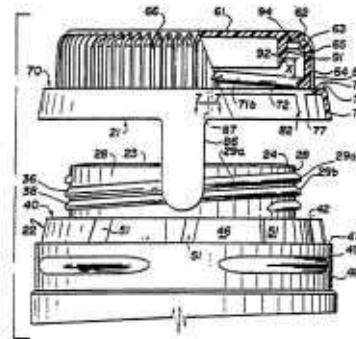


FIG. 2

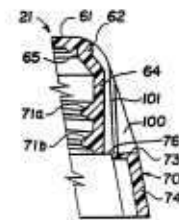
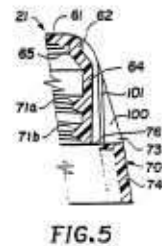
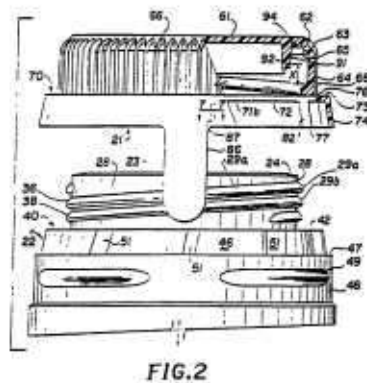


FIG. 5

or **groove** mating with the first helical thread and a downward extending skirt (70) which includes an outer skirt portion (74) and an inwardly extending shoulder (73), a frangible section (76) interconnecting the shoulder and the upper skirt portion (64). At least one vertical fin (100) is upstanding from the shoulder, preventing upward **deformation** of the lower skirt portion (74). The lower skirt portion (74) has at least one internal ratchet tooth (81) and a line of weakness (87) through the outer skirt portion and the shoulder. The lower skirt portion has a tear tab (86) which, when pulled, fractures the lower skirt at the frangible section (76). <IMAGE>

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- PN - [GB2281905](#) A 19950322
- PNFP - GB2281905 B 19960529
- PR - GB19940004495
19921006; US19910772945
19911008; US19920830133
19920131; WO1992US08493
19921006
- AP - [GB19940023499](#) 19921006
- DT - *; Rep
- CCI - [B65D1/023](#) ; [B65D41/0421](#) ;
[B65D41/0471](#) ; [B65D41/17](#) ;
[B65D41/34](#) ; [B65D41/3404](#) ;
[B65D41/3409](#)
- CCA - [B65D2251/0015](#) ; [B65D2251/0093](#) ;
[B65D2401/15](#) ; [B65D2401/25](#) ;
[B65D2401/35](#) ; [B65D2501/0081](#) ;
[B65D2577/205](#)
- CI - B65D1/023 (EP)
- B65D41/0421 (EP)
- B65D41/0471 (EP)
- B65D41/17 (EP)
- B65D41/34 (EP)
- B65D41/3404 (EP)
- B65D41/3409 (EP)
- CA - B65D2251/0015 (EP)
- B65D2251/0093 (EP)



	- B65D2401/15 (EP) - B65D2401/25 (EP) - B65D2401/35 (EP) - B65D2501/0081 (EP) - B65D2577/205 (EP)
PA	- (A B) CAP SNAP CO [US]
TI	- (A B) Snap-on, screw-off cap and container neck
AB	- (A) A tamper-evident, snap-on, screw-off closure (21) is used for a container neck (22) which has a first helical thread (29) or groove on an upper neck stretch portion (28) and an external ratchet tooth (51) on a lower locking wall portion (40). The closure has an upper skirt (62) having helical thread (71) or groove mating with the first helical thread and a downward extending skirt (70) which includes an outer skirt portion (74) and an inwardly extending shoulder (73), frangible section (76) interconnecting the shoulder and the upper skirt portion (64). At least one verical fin (100) is upstanding from the shoulder, preventing upward deformation of the lower skirt portion (74). The lower skirt portion (74) has at least one internal ratchet tooth (81) and a line of weakness (87) through the outer skirt portion and the shoulder. The lower portion skirt has a tear tab (86) which, when pulled, fractures the lower skirt at the frangible section (76). <IMAGE>

PN - [GB2274838](#) A 19940810

PNFP - GB2274838 B 19950412

PR - GB19930011495
19930603; US19910772945
19911008; US19920830133 19920131

AP - [GB19940004495](#) 19921006

DT - *; Rep

CCI - [B65D1/023](#) ; [B65D41/0421](#) ;
[B65D41/0471](#) ; [B65D41/17](#) ;
[B65D41/34](#) ; [B65D41/3404](#) ;
[B65D41/3409](#)

CCA - [B65D2251/0015](#) ; [B65D2251/0093](#) ;
[B65D2401/15](#) ; [B65D2401/25](#) ;
[B65D2501/0081](#) ; [B65D2577/205](#)

CI - B65D1/023 (EP)
B65D41/0421 (EP)
B65D41/0471 (EP)
B65D41/17 (EP)
B65D41/34 (EP)
B65D41/3404 (EP)
B65D41/3409 (EP)

CA - B65D2251/0015 (EP)
B65D2251/0093 (EP)
B65D2401/15 (EP)
B65D2401/25 (EP)
B65D2501/0081 (EP)
B65D2577/205 (EP)

PA - (A B)
CAP SNAP CO [US]

TI - (A)
Snap-on screw-off cap and
container neck
(B)
Snap-on, screw-off cap and
container neck

AB - (A)
A **tamper-evident, snap-on**, screw-
off **closure** (21) is used for a
container neck (22) which has a
first helical thread (29) or **groove**
an an upper neck stretch portion
(28) and an external ratchet tooth
(51) on a lower locking wall
portion (40). The **closure** has an
upper skirt (62) having helical
thread (71) or **groove** mating with
the first helical thread, and a
downward extending skirt (70)

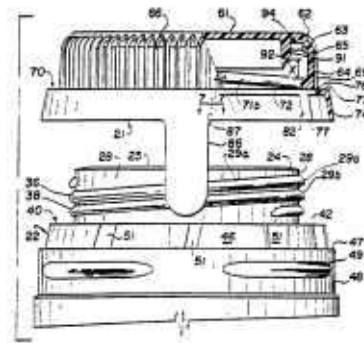


FIG. 2

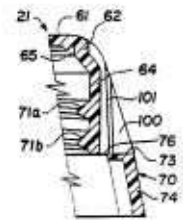
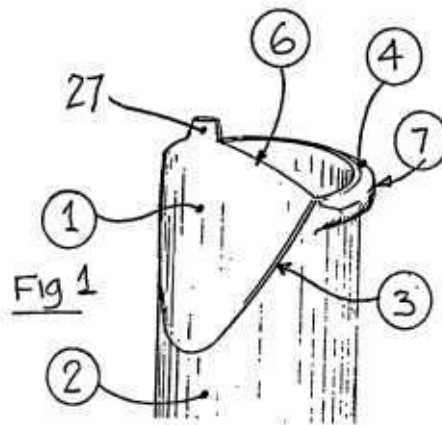


FIG. 5

which includes an outer skirt portion (74) and an inwardly extending shoulder (73), frangible section (76) interconnecting the shoulder and the upper skirt portion (64). At least one vertical fin (100) is upstanding from the shoulder, preventing upward **deformation** of the lower skirt portion (74). The lower skirt portion (74) has at least one internal ratchet tooth (81) and a line of weakness (87) through the outer skirt portion and the shoulder. The lower portion skirt has a tear tab (86) which, when pulled, fractures the lower skirt at the frangible section (76). <IMAGE>

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- PN - [GB2269811](#) A 19940223
- PNFP - GB2269811 B 19960313
- PR - GB19920017932 19920822
- AP - [GB19930007257](#) 19930407
- DT - *: Rep
- CT - // STSE (A B)
[GB2130996](#) A 00000000 []
- CCI - [B65D47/0809](#) ; [B65D47/2031](#) ;
[B65D50/04](#)
- CI - B65D47/0809 (EP)
- B65D47/2031 (EP)
- B65D50/04 (EP)
- PA - (A B)
WESTON TERENCE E [GB]; WESTON
JUDITH MARY [GB]
- TI - (A)
Hinged **closure**
- (B)
Snap action closures for
containers
- AB - (A)
A **closure** comprises a flexible
panel 1 attached to a container 2
or cap by one or more hinges 3,
the hinge or hinges defining an
area which is smaller than the
area of the panel and the panel
being outwardly convex when in



the open position and inwardly concave when pushed into the closed position (figure 2). The rim 7 of the container may be strengthened and may also **deform** to aid movement of the panel and to give a **snap** action. The panel may have longitudinally extending reinforcing grooves or ribs. The **closure** may be integral with the container or form part of a cap (figure 11). It may also have a sealing device such as a lip (23, figures 8 and 9) or rib and **groove** seal, and may have a **tamper evident** tear off seal which must be removed before opening. The **closure** may be child resistant (figures 12a-12e) and comprise a cap, biased by a spring, rotating on the **closure**. The **closure** may be manufactured from plastics, metal, cardboard, paper or a composite of these and may include a tab 27. <IMAGE>

[SS 4]