



New connection on: : 13-11-2020 : 00:47:45 - Last disconnection on: : 12-11-2020 : 13:32:27

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

## Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 2] child and (resistant or proof) and (cap or lid) and hinge and /ic (B65D 41+)

Results in EPODOC 0

EPODOC: No term found in index 'IC' for the truncation 'B65D 41+'. WARNING(401)

[SS 3] resistant or proof

Results in EPODOC 1.031.790

[SS 4] cap or lid

Results in EPODOC 1.136.737

[SS 5] 3 and 4

Results in EPODOC 32.083

[SS 6] 5 and child and hinge

Results in EPODOC 118

[SS 7] 6 and /ic (B65D)

Results in EPODOC 113

[SS 8] ..li



1/113 © EPODOC / EPO

PN - [JP2020083432](#) A 20200604

PR - JP20180224145 20181129

AP - [JP20180224145](#) 20181129

DT - I

FI - B65D83/04&H

PA - YOSHINO KOGYOSHO CO LTD

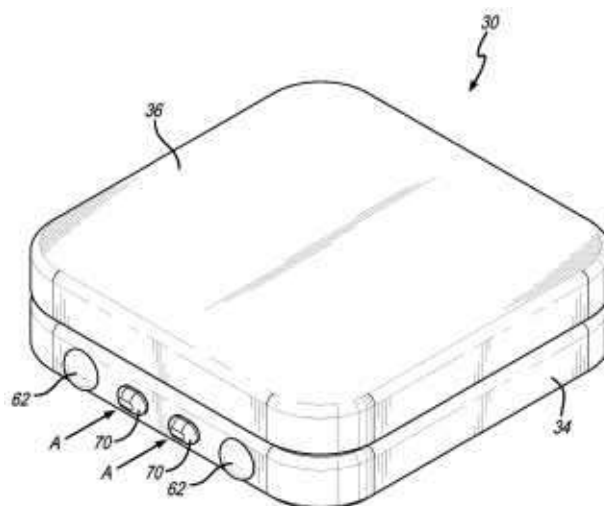
TI - CONTAINER FOR GRANULES

AB - To provide a container for granules which can stably obtain a **child-resistant** function and

is easily adjustable in a discharge amount. SOLUTION: A container 1 for granules has: a container body 2 having a mouth part 2a communicating with a storage space S for granules C; and a cap 3. The cap 3 has: a hinge cap body 4 which is fitted to an outer peripheral surface of the mouth part 2a and covers an upper end surface 2d of the mouth part 2a; a nozzle 5 which is held by the hinge cap body 4 to move up and down, and sections a discharge port 19 for the granules C; a middle plug 6 which is held between the hinge cap body 4 and the upper end surface 2d of the mouth part 2a; and a lid body 7 which is coupled to the hinge cap body 4 through a hinge 8, and can open and close the discharge port 19. The middle plug 6 has a deformation part 18 which sections a communication port 20 communicating with the discharge port 19, and is pushed by a nozzle 5 in the action of moving down to elastically deform to vary the size of the communication port 20 and deform to restore itself as the nozzle 5 moves up. SELECTED DRAWING: Figure 1

2/113 © EPODOC / EPO

PN - [WO2020028599](#) A1 20200206  
PR - US201862712874P 20180731  
AP - [WO2019US44561](#) 20190731  
DT - \*\*  
CT - [US] ISR (A1)  
[US2015021326](#) A1 20150122 [XY]  
(GIRAUD JEAN-PIERRE [US], et al)  
[X] 1-2, 4-11, 19, 21-23  
\*, entire document \*  
[Y] 20;  
[US2008215440](#) A1 20080904 [XY]  
(PETERSON ROBERT J [US], et al)  
[X] 1, 3  
\*, entire document \*  
[Y] 20;  
[US2007284277](#) A1 20071213 [XY]  
(GNEPPER MAURICE R [US])  
[X] 1, 12-15, 18, 24-27  
\*, entire document \*  
[Y] 16-17, 28;  
[US5275291](#) A 19940104 [Y] (SLEDGE  
LARRY C [US])  
[Y] 16-17, 28  
\*, entire document \*;  
[US2016251107](#) A1 20160901 [A]  
(EVERETT MUNSON WHITMAN [US])  
[A] 1-28  
\*, entire document \*;  
[US2013248531](#) A1 20130926 [A]  
(LANE MARVIN [US])  
[A] 1-28  
\*, entire document \*;  
[US2002185404](#) A1 20021212 [A]  
(DONEGAN MICHAEL PATRICK [US])  
[A] 1-28  
\*, entire document \*;



[US2014014538](#) A1 20140116 [A]

(DAWSON FRED [US], et al)

[A] 1-28

\*, entire document \*;

[US2009236357](#) A1 20090924 [A]

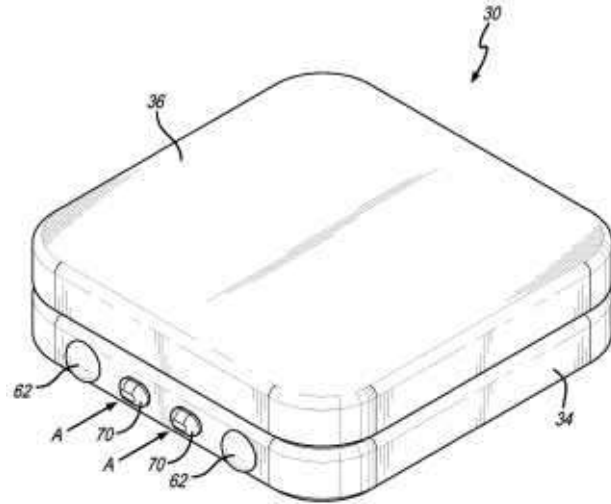
(GIRAUD JEAN-PIERRE [FR], et al)

[A] 1-28

\*, entire document \*

- CCI - [B65D5/38](#) ; [B65D43/16](#) ;  
[B65D50/046](#)
- CCA - [B65D2215/04](#)
- CI - B65D5/38 (EP, US)  
- B65D25/14 (US)  
- B65D43/16 (EP)  
- B65D43/163 (US)  
- B65D50/00 (US)  
- B65D50/046 (EP)  
- B65D55/02 (US)
- CA - B65D2215/04 (EP)
- PA - MORE AGENCY INC [US]
- TI - **CHILD-RESISTANT** CONTAINERS  
AND PACKAGING
- AB - The **child-resistant** container includes a receptacle having an inner cavity, a **lid** that selectively couples with the receptacle to enclose the inner cavity when in a locked position, and a lock movable between the locked position securing the **lid** to the receptacle to substantially prevent access to the inner cavity and an unlocked position permitting the **lid** to move relative to the receptacle to expose access to the inner cavity. The receptacle and **lid** combination may include a **lid** that pivots relative to a container about a **hinge** and locks thereto by locking catches in the container sidewalls; or may include an outer housing enclosing an inner storage container in slide-in relation, wherein a pair of safety tabs extend from the inner storage container and through the outer housing into a respective pair of locking channels formed therein.

- PN - [US2020039707](#) A1 20200206
- PR - US201916528554  
20190731; US201862712874P  
20180731
- AP - [US201916528554](#) 20190731
- DT - \*; Rep
- CCI - [B65D5/38](#) ; [B65D43/16](#) ;  
[B65D50/046](#)
- CCA - [B65D2215/04](#)
- CI - B65D5/38 (EP, US)  
B65D25/14 (US)  
B65D43/16 (EP)  
B65D43/163 (US)  
B65D50/00 (US)  
B65D50/046 (EP)  
B65D55/02 (US)
- CA - B65D2215/04 (EP)
- PA - MORE AGENCY INC [US]
- TI - **CHILD-RESISTANT** CONTAINERS  
AND PACKAGING
- AB - The **child-resistant** container includes a receptacle having an inner cavity, a **lid** that selectively couples with the receptacle to enclose the inner cavity when in a locked position, and a lock movable between the locked position securing the **lid** to the receptacle to substantially prevent access to the inner cavity and an unlocked position permitting the **lid** to move relative to the receptacle to expose access to the inner cavity. The receptacle and **lid** combination may include a **lid** that pivots relative to a container about a **hinge** and locks thereto by locking catches in the container sidewalls; or may include an outer housing enclosing an inner storage container in slide-in relation, wherein a pair of safety tabs extend from the inner storage container and through the outer housing into a respective pair of



locking channels formed therein.

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PN - [CA3048095](#) A1 20200109  
PR - US201862695366P  
20180709; US201916430500  
20190604

AP - [CA20193048095](#) 20190626

DT - I

CCI - [B65D43/163](#) ; [B65D50/06](#)

CCA - [B65D2215/04](#)

CI - B65D43/163 (EP, US)

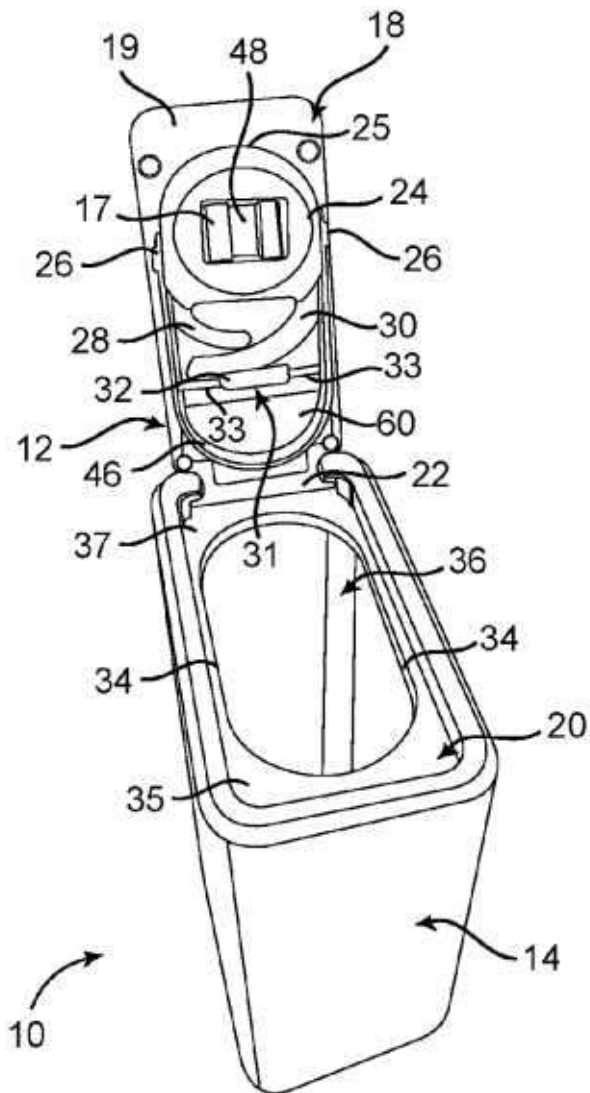
- B65D50/06 (EP, US)

CA - B65D2215/04 (EP, US)

PA - ASSURPACK LLC [US]

TI - CONTAINER WITH A **CHILD-RESISTANT LID**

AB - A **lid** opens and closes a container which has first walls forming an interior. The **lid** includes a lower member and an upper member. The lower member has a plurality of edges forming an aperture for accessing the interior of the container when the **lid** is in an open configuration. The upper member has a distal end; a **hinge** rotatably engaging the lower member wherein the distal end of the upper member rotates towards the lower member when the **lid** is in a closed configuration, and wherein the distal end rotates away from the lower member when the **lid** is in the open configuration; a downwardly extending second wall for closing the aperture when the **lid** is in the closed configuration, and for opening the aperture when the **lid** is in the open configuration; an abutment; a resilient member engaging the abutment; and a protrusion coupled to the resilient member and engaging a first edge of the lower member when the **lid** is in the closed



configuration; and a button coupled to the resilient member, with the button in a first position for applying a force to the resilient member to move the protrusion away from the first edge to place the **lid** in the open configuration, and the button in a second position for not applying the force to the resilient member, wherein a restorative force of the resilient member against the abutment causes the protrusion to engage the first edge to place the **lid** in the closed configuration.

**5/113** © EPODOC / EPO

PN - [JP2019151355](#) A 20190912  
 PR - JP20180035969 20180228  
 AP - [JP20180035969](#) 20180228  
 DT - I  
 FI - B65D43/02&200; B65D50/06  
 FT - 3E084/AA05; 3E084/AA14; 3E084/AA24; 3E084/AB07; 3E084/AB10; 3E084/BA01; 3E084/CA03; 3E084/CB04; 3E084/CC03; 3E084/DA03; 3E084/DB14; 3E084/DC03; 3E084/FA03; 3E084/FD03; 3E084/GA08; 3E084/GB06; 3E084/GB26; 3E084/LD30  
 PA - YOSHINO KOGYOSHO CO LTD  
 TI - CONTAINER WITH **LID**  
 AB - To provide a container with a **lid** including a **child-resistant** function.SOLUTION: A container with a **lid** includes: a bottomed cylindrical container body 2 in which a flange 24 is formed along an outer edge of an opening part 23; an inner frame body 3 to be assembled to the flange 24; a **lid** body 4 including an outer frame part 41 to be assembled to the inner frame body 3 and a top wall 42 for closing the opening part 23 on the inside of the outer frame part 41; and a lock member 34 for locking the **lid** body 4 by being engaged with the **lid** body 4 in a state of closing the opening part 23. The inner frame body 3, the **lid** body 4 and the lock member 34 are molded integrally. The inner frame body 3 and the **lid** 4 are connected in a rotatable manner via a first **hinge** 43. The inner frame body 3 and the lock member 34 are connected in a rotatable manner via a second **hinge** 35, and they are connected in a rotatable manner via the second **hinge** 35 between a locked state where the lock member 34 is locking the **lid** body 4 and a non-locked state where the lock member 34 is not locking the **lid** body 4.SELECTED DRAWING: Figure 3

**6/113** © EPODOC / EPO

PN - [JP2019151334](#) A 20190912  
 PR - JP20180035391 20180228  
 AP - [JP20180035391](#) 20180228  
 DT - I

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FI | - B65D43/16&300; B65D50/06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| FT | - 3E084/AA05; 3E084/AA14; 3E084/AA24; 3E084/AB01; 3E084/AB05; 3E084/AB07; 3E084/BA01; 3E084/CA03; 3E084/CB04; 3E084/CC03; 3E084/DA03; 3E084/DB09; 3E084/DB13; 3E084/DB14; 3E084/DB18; 3E084/DC03; 3E084/FA02; 3E084/FC09; 3E084/FC13; 3E084/GA06; 3E084/GB06; 3E084/GB13; 3E084/GB17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PA | - YOSHINO KOGYOSHO CO LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TI | - BOX-TYPE CONTAINER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AB | - To provide a box-type container with a <b>child-resistant</b> function of preventing object persons from opening and allowing non-object persons to open.SOLUTION: A box-type container has a cylindrical container main body with the bottom for storing contents, an inner frame arranged at the margins of the opening of the container main body and a <b>lid</b> with an outer frame which can be engaged with the inner frame for closing the container main body, and the inner frame and the outer frame are connected via a <b>hinge</b> arranged in between. On the inner frame 11 and the outer frame 12, a first engaging part 15 and a second engaging part 16 are formed respectively, both projecting outwards. In a closed state in which the <b>lid</b> 10A is turned around the <b>hinge</b> 14 to close the container main body 1, the first engaging part 15 and the second engaging part 16 are overlapped to be able to engage with each other.SELECTED DRAWING: Figure 2 |



downwardly extending second wall for closing the aperture when the **lid** is in the closed configuration, and for opening the aperture when the **lid** is in the open configuration; an abutment; a resilient member engaging the abutment; and a protrusion coupled to the resilient member and engaging a first edge of the lower member when the **lid** is in the closed configuration; and a button coupled to the resilient member, with the button in a first position for applying a force to the resilient member to move the protrusion away from the first edge to place the **lid** in the open configuration, and the button in a second position for not applying the force to the resilient member, wherein a restorative force of the resilient member against the abutment causes the protrusion to engage the first edge to place the **lid** in the closed configuration.

**8/113** © EPODOC / EPO

PN - [US2019202606](#) A1 20190704

PR - US201916279800  
 20190219; US201514837018  
 20150827; US201414170214  
 20140131; US20100997507  
 20101210; WO2007US06693  
 20070316; US20060743759P  
 20060324; US20060783637P  
 20060317

AP - [US201916279800](#) 20190219

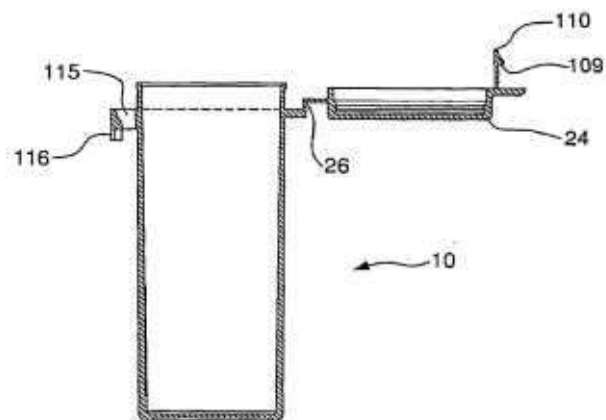
DT - \*\*

CCI - [B65D47/0804](#) ; [B65D50/045](#)

CCA - [B65D2215/02](#)

CI - B65D43/0202 (US)  
 - B65D47/0804 (EP, US)  
 - B65D50/00 (US)  
 - B65D50/045 (EP, US)  
 - B65D50/06 (US)

CA - B65D2215/02 (EP, US)



PA - CSP TECHNOLOGIES INC [US]  
 TI - TAB RELEASE **CHILD** SAFETY  
 FEATURE  
 AB - A **child-resistant** container  
 including a container body, a **lid**,  
 and at least one resilient tab is  
 provided. The **lid** is pivotable  
 about an axis through a **hinge**  
 joining the **lid** to the container  
 body to open and close the  
 container. The resilient tab has a  
 proximal portion fixed to the **lid**,  
 a distal portion projecting from  
 the **lid**, and at least one  
 abutment on the distal portion.  
 The abutment on the distal  
 portion of the tab is normally  
 biased into engagement with an  
 abutment on the container body  
 when the **lid** is in its closed  
 position. The distal portion of  
 the tab is displaceable against  
 the bias to disengage the  
 abutment of the tab from the  
 abutment of the container.  
 Displacement of the tab  
 releases the **lid** so that it can be  
 pivoted about the **hinge** to open  
 the container.

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PN - [WO2019106188](#) A1 20190606  
 PR - EP20170205019 20171201  
 AP - [WO2018EP83225](#) 20181130  
 DT - \*; Rep  
 CT - |EP| ISR (A1)  
[US3302778](#) A 19670207 [A]  
 (MCGORTY CARROLL J, et al)  
 [A] 1-12  
 \* column 1, line 65 - column 3, line  
 27; figures 1-6 \*;  
[EP3070017](#) A1 20160921 [A]  
 (FINEGA [FR])  
 [A] 1-12  
 \* paragraph [0060] - paragraph  
 [0065]; figures 1-11 \*;  
[US2854135](#) A 19580930 [A]  
 (PANTALONE VINCENT R)  
 [A] 1-12  
 \* column 2, line 18 - column 3, line

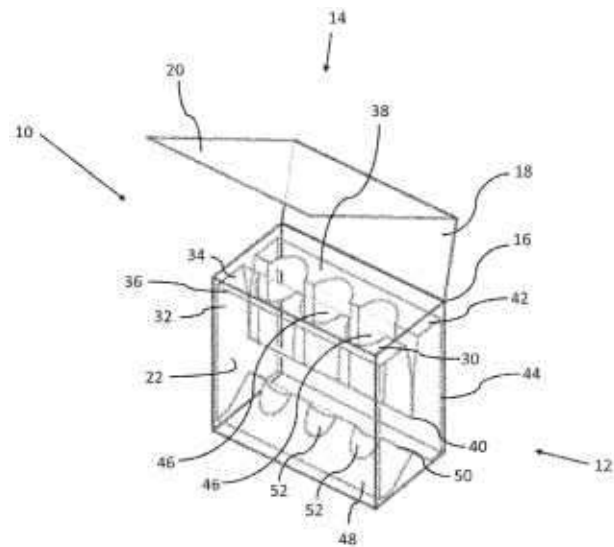


Figure 1

68; figures 1-4 \*;  
GB1271080 A 19720419 [A] (SHIRLEY  
 & WARBEY BOX COMPANY L [GB])  
 [A] 1-12  
 \* page 1, line 65 - page 2, line 43;  
 figures 1-3 \*

- CCI - B65D5/5021 ; B65D5/5061
- CI - B65D5/5021 (EP)  
 - B65D5/5061 (EP)
- PA - PHILIP MORRIS PRODUCTS SA [CH]
- TI - **CHILD-RESISTANT** CONTAINER FOR  
 CONSUMER ARTICLES
- AB - A container (10) comprises a box  
 (12); a **lid** (14) hinged to the box  
 along a **hinge** line (16) extending  
 across a back wall of the  
 container; and a supporting  
 frame (30) arranged within the  
 box (12) and adapted to receive  
 and retain a storage unit (60). At  
 least the supporting frame (3) is  
 formed from a flexible laminar  
 blank. The supporting frame (30)  
 is movable between a first  
 configuration, wherein the  
 supporting frame is adapted to  
 engage a retaining surface of the  
 storage unit (60) to retain the  
 storage unit within the box, and  
 a second configuration, wherein  
 the storage unit is released from  
 engagement with the supporting  
 frame to be removed from the  
 container. The container (10)  
 further comprises a connecting  
 panel depending from a panel of  
 the supporting frame and  
 extending substantially parallel  
 to a box front wall; a third frame  
 panel depending from the  
 connecting panel; a fourth frame  
 panel depending from the third  
 frame panel; a cut out portion  
 extending across the third frame  
 panel and the fourth frame  
 panel and providing an opening  
 for partially receiving and  
 stabilising the at least one  
 storage unit.

PN - [US2018305093](#) A1 20181025

PR - US201815960727  
20180424; US201762489032P  
20170424

AP - [US201815960727](#) 20180424

DT - \*; Rep

CCI - [B65D43/162](#) ; [B65D50/067](#)

CCA - [B65D2251/1058](#) ; [B65D2543/00074](#) ;  
[B65D2543/00296](#) ;  
[B65D2543/00324](#) ;  
[B65D2543/00351](#) ; [B65D2543/00537](#)

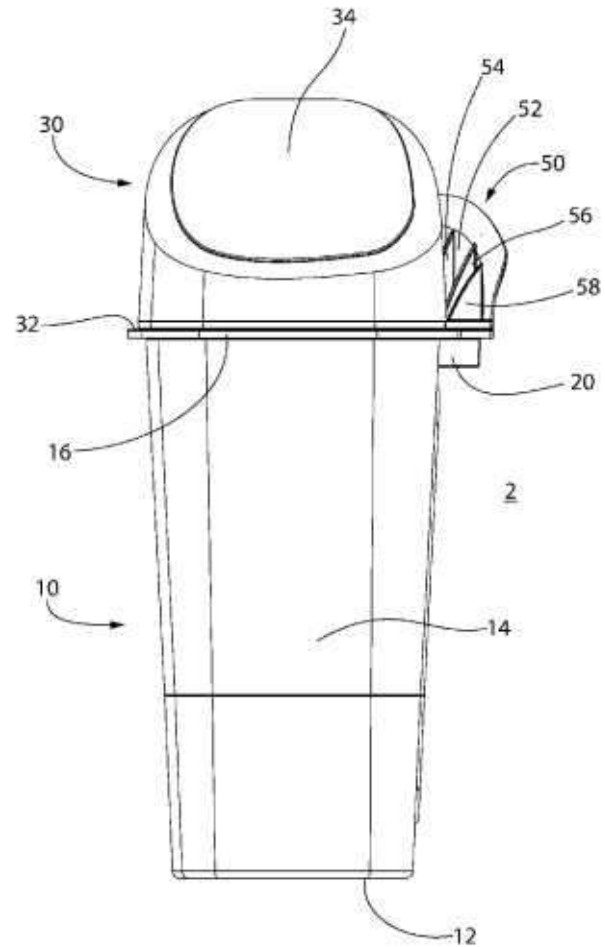
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B65D50/067 (EP, US)

CA - B65D2251/1058 (EP)  
B65D2543/00074 (EP, US)  
B65D2543/00296 (EP)  
B65D2543/00324 (EP)  
B65D2543/00351 (EP, US)  
B65D2543/00537 (EP)

PA - CSP TECHNOLOGIES INC [US]

TI - **CHILD RESISTANT CONTAINER AND METHOD OF OPENING SAME**

AB - A **child resistant** container is for containing at least one product, such as medicine. The **child resistant** container includes a body, a **lid**, and a directing portion. The body has an end portion defining an opening leading to an interior of the body. The **lid** is connected to the body via a **hinge**, and includes a cover portion and a protrusion extending outwardly therefrom. The cover portion is configured to move between a FIRST position corresponding to the cover portion covering the opening, and a SECOND position corresponding to the cover portion not covering the opening. The directing portion extends from one of the body and the cover portion, and at least partially encloses the protrusion when the cover portion is in the FIRST position. When the cover portion moves from the FIRST position to the SECOND position,



the protrusion moves away from the directing portion.

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- PN - [GB2562197](#) A 20181114
- PR - GB20170001510 20170130
- AP - [GB20170001510](#) 20170130
- DT - \*\*
- CT - // STSE (A)  
[EP3117737](#) A1 00000000 [ ];  
[EP0695522](#) A2 00000000 [ ];  
[WO2005120974](#) A1 00000000 [ ];  
[US5022562](#) A 00000000 [ ];  
[US2014166608](#) A1 00000000 [ ];  
[US2010278580](#) A1 00000000 [ ];  
[US2007009318](#) A1 00000000 [ ]
- CCI - [B65D1/32](#) ; [B65D47/2025](#) ;  
[B65D47/2075](#) ; [B65D47/242](#)
- CI - B65D1/32 (EP)  
B65D47/2025 (EP)  
B65D47/2075 (EP)  
B65D47/241 (GB)  
B65D47/242 (EP)  
B65D47/246 (GB)  
B65D50/00 (GB)
- PA - NERUDIA LTD [GB]
- TI - Dispenser assembly
- AB - A dispenser assembly for a container including a fluid reservoir 2 comprises dispenser outlet 28 in fluid communication with the reservoir, a conduit 26 providing fluid communication between the reservoir and dispenser outlet 28, and a valve arrangement 21 moveable between closed and open positions in which valve member 23 prevents and allows fluid communication between the reservoir and outlet. A removable **cap** (3, fig. 1) can sealably enclose the dispenser outlet. The **cap** preferably includes **child proof** or **child resistant** formations (not shown) and may be coupled to the assembly by a live **hinge** (not shown). In one embodiment (see

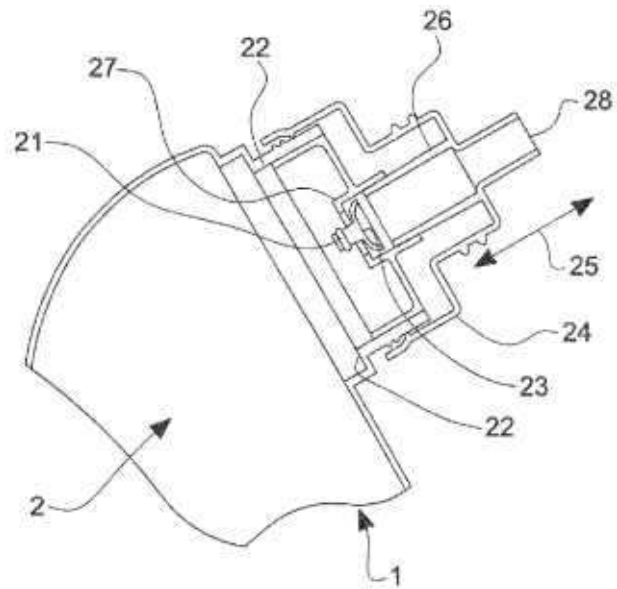


Figure 2(b)

fig. 1) rotation of the conduit 26 causes it to slide away from the valve member 23 to open the valve arrangement, and rotation of the conduit in the opposing direction by screwing the **cap** onto the dispenser assembly returns the valve arrangement to the closed position. In another embodiment (see figures 3a, 3b, 4, 5a and 5b) the assembly includes an actuation member for urging the valve member to the open position in response to a user input, and a biasing member for returning the valve member to the closed position upon removal of the user input.

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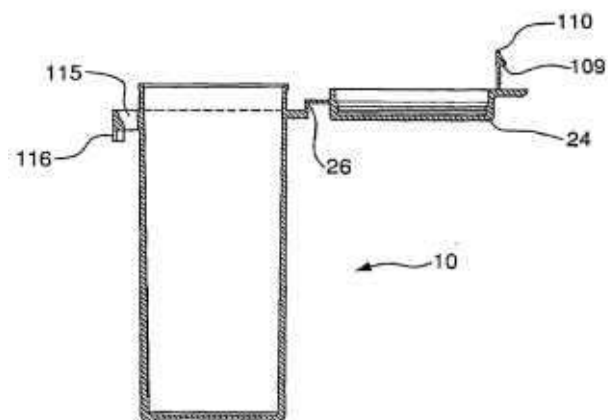
PN - [TW364889B](#) B 19990721  
 PR - GB19960007473 19960411; GB19960021563 19961016  
 AP - [TW19970104602](#) 19970410  
 DT - I  
 CCI - [B65D47/0838](#) ; [B65D50/045](#) ; [B65D50/061](#)  
 CI - B65D47/0838 (EP)  
 - B65D50/045 (EP)  
 - B65D50/061 (EP)  
 PA - METAL BOX PLC [GB]  
 TI - Hinged dispensing closure  
 AB - A **child-resistant** dispensing closure is snap-engageable and freely rotatable on a container neck. The closure has body and **lid** portions one of which has two parts capable of relative rotation. One of the two parts is attached to the other portion of the closure by an integral **hinge** which enables the **lid** portion to be swung between closed and open positions as required for dispensing. A catch between the **lid** and body portions is automatically engaged when the **lid** portion is closed. In order to subsequently release the catch for dispensing it is necessary for the user to grasp the closure with both hands and rotate the relatively rotatable parts, possibly against the action of a return spring. The closure is intended for liquid products such as liquid soaps.

**13/113** © EPODOC / EPO

PN - [JP2017013816](#) A 20170119  
 PR - JP20150130923 20150630  
 AP - [JP20150130923](#) 20150630  
 DT - I  
 FI - B65D43/22&A; B65D43/22&100; B65D55/02  
 FT - 3E084/AA05; 3E084/AA14; 3E084/AA26; 3E084/AB09; 3E084/BA03; 3E084/BA05; 3E084/CA03;

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PA | - DAINIPPON PRINTING CO LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TI | - LIDDED CONTAINER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AB | - PROBLEM TO BE SOLVED: To provide a <b>child-resistant</b> and senior-friendly container relative to opening/closing of a <b>lid</b> .SOLUTION: A lidded container 1 includes a container body 10 opened upward, and a <b>lid</b> body 20 fixed to the container body, and provided openably/closably by a <b>hinge</b> 21, for blocking the opening of the container body. A lock mechanism 70 for keeping the <b>lid</b> body in the closed state is provided on one spot which is a spot facing to the <b>hinge</b> (front face side), and two spots on each lateral side of a part provided with the <b>hinge</b> (both side face sides) on a marginal part where the <b>lid</b> body is separated from the container body when being opened.SELECTED DRAWING: Figure 1 |

TI - (A1)



TAB RELEASE **CHILD** SAFETY  
FEATURE

- (B2)

Tab release **child** safety feature

AB

- (A1 B2)

A **child-resistant** container including a container body, a **lid**, and at least one resilient tab is provided. The **lid** is pivotable about an axis through a **hinge** joining the **lid** to the container body to open and close the container. The resilient tab has a proximal portion fixed to the **lid**, a distal portion projecting from the **lid**, and at least one abutment on the distal portion. The abutment on the distal portion of the tab is normally biased into engagement with an abutment on the container body when the **lid** is in its closed position. The distal portion of the tab is displaceable against the bias to disengage the abutment of the tab from the abutment of the container. Displacement of the tab releases the **lid** so that it can be pivoted about the **hinge** to open the container.

PN - [CA2894110](#) A1 20151219

PNFP - CA2894110 C 20190730

PR - US201462014257P 20140619

AP - [CA20152894110](#) 20150611

DT - I

CCI - [A61J1/03](#) ; [A61J1/1425](#) ;  
[B65D43/0218](#) ; [B65D43/162](#) ;  
[B65D43/22](#) ; [B65D50/045](#) ;  
[B65D51/245](#)

CCA - [A61J1/065](#) ; [B65D2203/00](#) ;  
[B65D2215/02](#) ; [B65D2251/1016](#) ;  
[B65D2543/00509](#) ; [B65D2543/00842](#)

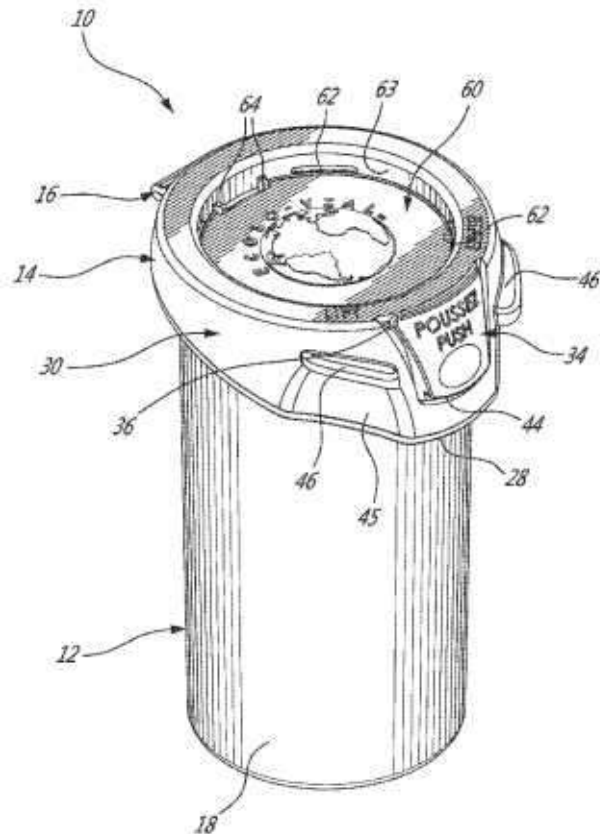
CI - [A61J1/03](#) (EP, US)  
[A61J1/1425](#) (EP, US)  
[B65D43/0218](#) (EP, US)  
[B65D43/162](#) (EP, US)  
[B65D43/22](#) (EP, US)  
[B65D50/045](#) (EP, US)  
[B65D51/245](#) (EP, US)

CA - [A61J1/065](#) (EP, US)  
[B65D2203/00](#) (EP, US)  
[B65D2215/02](#) (EP, US)  
[B65D2251/1016](#) (EP, US)  
[B65D2543/00509](#) (EP, US)  
[B65D2543/00842](#) (EP, US)

PA - (A1 C)  
ECOLOPHARM INC [CA]

TI - (A1)  
HUMIDITY- **PROOF** AND **CHILD-RESISTANT** VIAL WITH IMPROVED IDENTIFICATION MEANS  
(C)  
**CHILD-RESISTANT** VIAL

AB - (A1)  
The problem of the possibility that a **child** inadvertently unlocks a **child-resistant** vial by triggering the latch with his teeth is solved by preventing access to the latch from under the **cap**. This is achieved by covering all sides of the latch with the exception of the front face thereof that is intended to be used to trigger the latch while the **cap** is lifted. Improvement of the humidity barrier in such a vial is achieved by closing the vial container with



a **cap** including a recess that defines inner and outer peripheral walls in the **cap**. The inner and outer walls together define an annular gap that is configured to complementarily receive the peripheral flange of the container. Both the edge of the inner wall of the **cap** and the inner peripheral wall of the container are provided with sealing rings that are axially distanced when the **cap** closes the vial container.

- (C)

To address the issue of a **child** inadvertently unlocking a vial, a **child-resistant** vial is provided which has a container having a first peripheral skirt; a **cap** pivotally mounted to the container via a **hinge**, the **cap** having a second peripheral skirt that generally overlays the first skirt when the container is closed by the **cap**; a tab that protrudes from the first skirt generally parallel thereto and has a free distal end; a cut out portion in the second skirt that cooperates with the tab to lock the vial when the container is closed by the **cap**. When the vial is locked, the tab is prevented from being released from the cut out portion unless simultaneous pressing on the tab and pulling on the **cap**. A tab guard on the first skirt closes access to the free end of the tab when the container is closed by the **cap**.

PN - [US2014144867](#) A1 20140529

PNFP - US9150339 B2 20151006

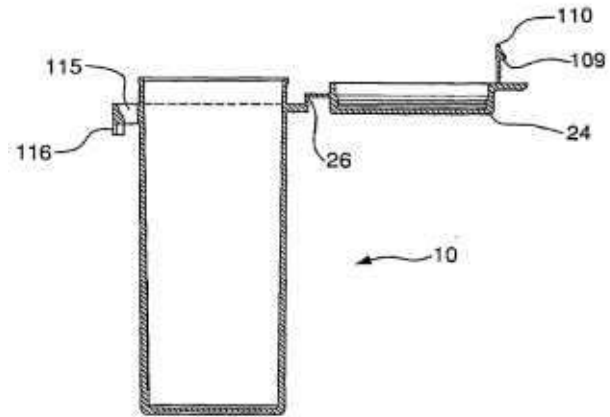
PR - US201414170214  
 20140131; US20100997507  
 20101210; WO2007US06693  
 20070316; US20060743759P  
 20060324; US20060783637P  
 20060317

AP - [US201414170214](#) 20140131

DT - \*\*

CT - *// R141 (A1)*  
[US4170315](#) A 00000000 [ ];  
[US4244495](#) A 00000000 [ ];  
[US4746008](#) A 00000000 [ ];  
[US4809874](#) A 00000000 [ ];  
[US4892208](#) A 00000000 [ ];  
[US4974735](#) A 00000000 [ ];  
[US5031784](#) A 00000000 [ ];  
[US5040691](#) A 00000000 [ ];  
[US5083671](#) A 00000000 [ ];  
[US5137260](#) A 00000000 [ ];  
[US5270011](#) A 00000000 [ ];  
[US5353946](#) A 00000000 [ ];  
[US5427265](#) A 00000000 [ ];  
[US5526953](#) A 00000000 [ ];  
[US5577779](#) A 00000000 [ ];  
[US5636756](#) A 00000000 [ ];  
[US5785179](#) A 00000000 [ ];  
[US6523690](#) B1 00000000 [ ];  
[US6772902](#) B1 00000000 [ ];  
[US2005023285](#) A1 00000000 [ ];  
[US2005242105](#) A1 00000000 [ ];  
[US6986434](#) B1 00000000 [ ];  
[US2006186077](#) A1 00000000 [ ];  
[US7581656](#) B2 00000000 [ ];  
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[US7721907](#) B2 00000000 [ ];  
[US8172101](#) B2 00000000 [ ];  
[US8167156](#) B2 00000000 [ ]

- *// STSE (B2)*  
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[US4244495](#) A 00000000 [ ];  
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[US5083671](#) A 00000000 [ ];  
[US5137260](#) A 00000000 [ ];  
[US5270011](#) A 00000000 [ ];



[US5353946](#) A 00000000 [ ];  
[US5427265](#) A 00000000 [ ];  
[US5526953](#) A 00000000 [ ];  
[US5577779](#) A 00000000 [ ];  
[US5636756](#) A 00000000 [ ];  
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[US8167156](#) B2 00000000 [ ];  
[US8172101](#) B2 00000000 [ ];  
[US2005023285](#) A1 00000000 [ ];  
[US2005242105](#) A1 00000000 [ ];  
[US2006186077](#) A1 00000000 [ ]

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCI | - <a href="#">B65D47/0804</a> ; <a href="#">B65D50/045</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CCA | - <a href="#">B65D2215/02</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CI  | - B65D43/0202 (US)<br>- B65D47/0804 (EP, US)<br>- B65D50/00 (US)<br>- B65D50/045 (EP, US)<br>- B65D50/06 (US)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CA  | - B65D2215/02 (EP, US)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PA  | - (A1 B2)<br>CSP TECHNOLOGIES INC [US]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TI  | - (A1)<br>TAB RELEASE <b>CHILD</b> SAFETY<br>FEATURE<br>- (B2)<br>Tab release <b>child</b> safety feature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| AB  | - (A1 B2)<br>A <b>child-resistant</b> container including a container body, a <b>lid</b> , and at least one resilient tab is provided. The <b>lid</b> is pivotable about an axis through a <b>hinge</b> joining the <b>lid</b> to the container body to open and close the container. The resilient tab has a proximal portion fixed to the <b>lid</b> , a distal portion projecting from the <b>lid</b> , and at least one abutment on the distal portion. The abutment on the distal portion of the tab is normally biased into engagement with an abutment on the container body when the <b>lid</b> is in its closed |

position. The distal portion of the tab is displaceable against the bias to disengage the abutment of the tab from the abutment of the container.

Displacement of the tab releases the **lid** so that it can be pivoted about the **hinge** to open the container.

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PN - [US2014076900](#) A1 20140320

PNFP - US8684213 B1 20140401

PR - US201213618747 20120914

AP - [US201213618747](#) 20120914

DT - \*, Rep

CT - *// R141 (A1)*  
[US2237528](#) A 00000000 [ ]

- *// STSE (B1)*  
[US2237528](#) A 00000000 [ ]

CCI - [B65D50/067](#)

CCA - [B65D2215/04](#)

CI - B65D43/267 (US)

- B65D50/067 (EP, US)

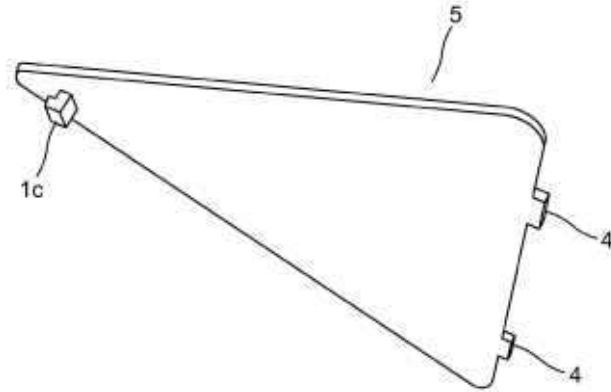
CA - B65D2215/04 (EP)

PA - (A1 B1)  
 WHITE ANDREW [US]

TI - (A1)  
 USER-FRIENDLY, **CHILD-RESISTANT**  
 CONTAINER

- (B1)  
 User-friendly, **child-resistant**  
 container

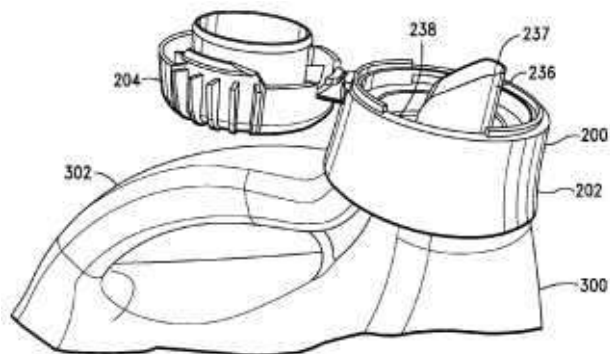
AB - (A1 B1)  
 A container assembly that includes a container having a container top and a container floor, a **lid** affixed to said container top by a **hinge**, the **lid** being adapted to move between an open position and a closed position, an internal fastener being (1) attached to the inside of the container, (2) not accessible from the outside of the container when the **lid** is in its closed position, and (3) adapted to maintain the **lid** in its



closed or locked position, an access hole in the container floor, a lever positioned within the container and above the access hole, and a tool adapted to be inserted into the access hole to activate the lever to release the internal fastening mechanism.

18/113 © EPODOC / EPO

- PN - [MX2013001894](#) A 20130405
- PR - WO2011US48444  
20110819; US20100860045 20100820
- AP - [MX20130001894](#) 20110819
- DT - I
- CCI - [B65D47/06](#) ; [B65D47/0833](#)
- CCA - [B65D2251/1016](#)
- CI - B65D47/06 (EP)  
B65D47/0833 (EP)
- CA - B65D2251/1016 (EP)
- PA - CLOROX CO [US]
- TI - **CHILD RESISTANT** FLIP-TOP  
CLOSURE WITH POURING SPOUT.
- AB - Described is a handled bottle having a flip top, **child-resistant** closure with a pour spout. An exemplary bottle comprises a container having a threaded neck on the container top front surface and having an enclosed handle on the container top rear surface wherein the neck comprises a container outlet and a separate handle inlet; a dispensing closure comprising a base member, a **cap** having a top and sidewalls, and a **hinge** connecting the base member and the **cap**, wherein the base member has a top wall with a depending outer concave flared sidewall and a depending intermediate wall having a pair of latches and a thread segment and connecting to an intermediate deck with a depending inner wall connecting to a lower deck having a beveled



spout wherein the **cap** has a pair of tabs each having a tab wall connecting a tab lug that locks into one of the latches.

19/113 © EPODOC / EPO

PN - [GB2512620](#) A 20141008

PR - GB20130006039 20130404

AP - [GB20130006039](#) 20130404

DT - \*, Rep

CT - // STSE (A)  
[GB2449704](#) A 20081203 [ ]  
 (DRAGON PLASTICS LTD [GB]);  
[WO2009089602](#) A1 20090723 [ ]  
 (VOLLERS CLAUDIO PATRICK [BR]);  
[US2004074919](#) A1 20040422 [ ]  
 (KNICKERBOCKER MICHAEL G [US])

CCI - [B65D47/0838](#)

CCA - [B65D2215/02](#) ; [B65D2401/15](#)

CI - B65D43/0235 (GB)

- B65D43/0237 (GB)

- B65D43/16 (GB)

- B65D43/162 (GB)

- B65D47/08 (GB)

- B65D47/0804 (GB)

- B65D47/0838 (EP)

- B65D47/0852 (GB)

- B65D50/04 (GB)

- B65D50/045 (GB)

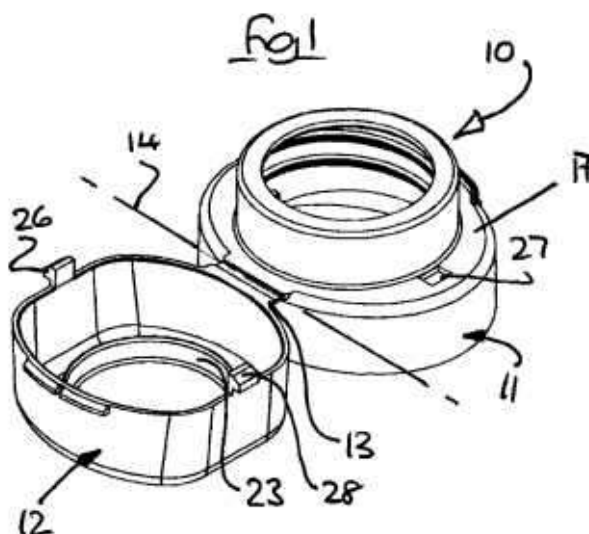
CA - B65D2215/02 (EP)

- B65D2401/15 (EP)

PA - DRAGON PLASTICS LTD [GB]

TI - Tamper Evident **Child Resistant**  
 Flip-Top Closure

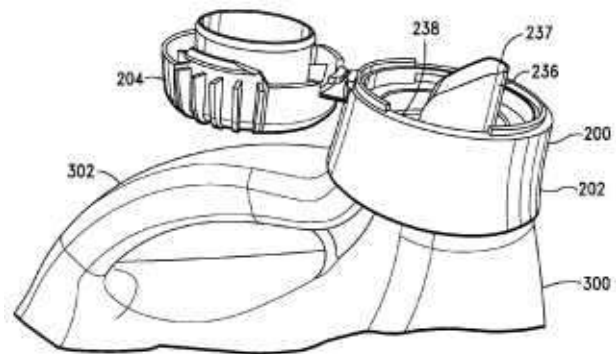
AB - A flip top closure 10 comprising a one-piece plastic moulding with a retention ring 11 for application to a container neck and a **cap** 12 connected to the retention ring 11 by a living hinge 13. The retention ring defines a mouth 15 (figure 3) and includes a seal for engagement with the mouth. The **cap** comprises a latch projection resiliently engageable in an aperture of the retention ring 11 to secure the **cap** in the closed condition; the latch



projection is releasable by squeezing the **cap** radially inward about the mouth. Additionally the **cap** comprises a frangible connection comprising a resilient catch engageable on the closure of the **cap** and breakable at the first opening of the **cap**. The catch and the **hinge** may be on opposite sides of the mouth, and the catch may comprise an upstanding bridge of the retention ring and a barb of the **cap**, which may be outwardly facing. A bridge span may be frangible upon first opening of the **cap**, and may comprise a central pillar to define a span on each side of the pillar, and the barb comprises teeth engageable one under each span.

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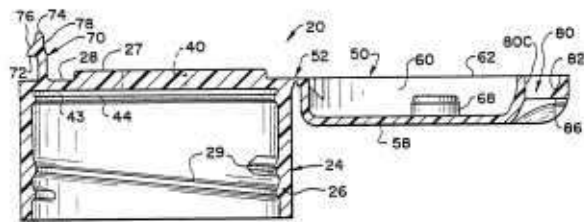
- PN - [CA2808419](#) A1 20120223
- PR - US20100860045  
20100820; WO2011US48444  
20110819
- AP - [CA20112808419](#) 20110819
- DT - I
- CCI - [B65D47/06](#) ; [B65D47/0833](#)
- CCA - [B65D2251/1016](#)
- CI - B65D47/06 (EP)  
B65D47/0833 (EP)
- CA - B65D2251/1016 (EP)
- PA - CLOROX CO [US]
- TI - **CHILD RESISTANT** FLIP-TOP  
CLOSURE WITH POURING SPOUT
- AB - Described is a handled bottle having a flip top, **child-resistant** closure with a pour spout. An exemplary bottle comprises a container having a threaded neck on the container top front surface and having an enclosed handle on the container top rear surface wherein the neck comprises a container outlet and a separate handle inlet; a



dispensing closure comprising a base member, a **cap** having a top and sidewalls, and a **hinge** connecting the base member and the **cap**, wherein the base member has a top wall with a depending outer concave flared sidewall and a depending intermediate wall having a pair of latches and a thread segment and connecting to an intermediate deck with a depending inner wall connecting to a lower deck having a beveled spout wherein the **cap** has a pair of tabs each having a tab wall connecting a tab lug that locks into one of the latches.

21/113 © EPODOC / EPO

- PN - [MY129972 A 20070531](#)
- PR - US19920967759 19921028
- AP - [MY1993PI02255](#) 19931028
- DT - I
- CCI - [B65D47/0838](#) ; [B65D50/045](#)
- CCA - [B65D2251/1016](#)
- CI - B65D47/0838 (EP)  
- B65D50/045 (EP)
- CA - B65D2251/1016 (EP)
- PA - APTARGROUP INC [US]
- TI - **CHILD RESISTANT** CLOSURE WITH RECESSED LATCH
- AB - A **CHILD-RESISTANT** CLOSURE (20) IS PROVIDED WITH A BASE (24) HAVING A DECK (28) WITH A DISCHARGE APERTURE (40). A **LID** (50) HAVING A BOTTOM SURFACE (62) FOR ENGAGING THE BASE (24) IS HINGEDLY CONNECTED TO THE BASE (24). THE BASE (24) HAS A RESILIENT LOCKING LEVER (70) THAT PROJECTS THE BASE DECK (28) AT A LOCATION INWARDLY OF THE PERIPHERY OF THE BASE (24). THE LEVER (70) DEFINES A SHOULDER (72). THE **LID** (50) HAS A CENTRAL COVER PANEL (58) DEFINING AN APERTURE (80) INWARDLY OF THE PERIPHERY OF



THE **LID** (50) FOR RECEIVING THE LEVER (70) WHEN THE **LID** (50) IS CLOSED. THE **LID** (50) DEFINES A LATCH SURFACE (86) ADJACENT THE APERTURE (80) FOR CONFRONTING THE BASE LEVER SHOULDER (72) WHEN THE **LID** (50) IS CLOSED. THE PERIPHERY OF THE **LID** (50) DEFINES A FINGER-ENGAGING SURFACE (92) Laterally offset relative to the **LID** APERTURE (80), AND THE FINGER-ENGAGING SURFACE (92) EXTENDS PROGRESSIVELY OUTWARDLY WITH INCREASING DISTANCE FROM THE **LID** BOTTOM SURFACE (62). THE PORTION OF THE BASE (24) THAT EXTENDS FROM THE **HINGE** CONNECTION (52) IS CONFIGURED TO PROJECT PERIPHERALLY OUTWARDLY AT LEAST AS FAR AS THE **LID** BOTTOM SURFACE (62) WHEN THE **LID** (50) IS CLOSED. THE PORTION OF THE **LID** PERIPHERY (60) THAT EXTENDS FROM THE **HINGE** CONNECTION (52) IS FREE OF OVERHANGING PERIPHERAL SURFACES OF SUFFICIENT DEPTH TO BE LIFTINGLY ENGAGED BY A **CHILD'S** TEETH.(FIG 7)

22/113 © EPODOC / EPO

PN - [JP2012131534](#) A 20120712  
PR - JP20100285307 20101222  
AP - [JP20100285307](#) 20101222  
DT - I  
FI - B65D43/22&A; B65D43/22&100; B65D55/02  
FT - 3E084/AA03; 3E084/AA04; 3E084/AA06; 3E084/AA12; 3E084/AA22; 3E084/AA24; 3E084/AA32; 3E084/AB01; 3E084/AB02; 3E084/AB06; 3E084/AB09; 3E084/AB10; 3E084/BA01; 3E084/CA01; 3E084/CC03; 3E084/DA01; 3E084/DB14; 3E084/DC03; 3E084/FA03; 3E084/FC13; 3E084/GA06; 3E084/GB06  
PA - DAINIPPON PRINTING CO LTD  
TI - SAFETY **CAP**  
AB - PROBLEM TO BE SOLVED: To provide a safety **cap** which has a **child-proof** mechanism provided and can be opened with slight force.SOLUTION: A hinged **cap** includes a cylindrical **cap** body, a topped **lid** and a **hinge** for coupling the **cap** body with the **lid**, and has a fitting mechanism between the **cap** body and the **lid** formed. A lock mechanism is formed along a circumference of the hinged **cap**. The lock mechanism includes a locking protrusion integrally formed with the **lid** and a locking portion integrally provided with

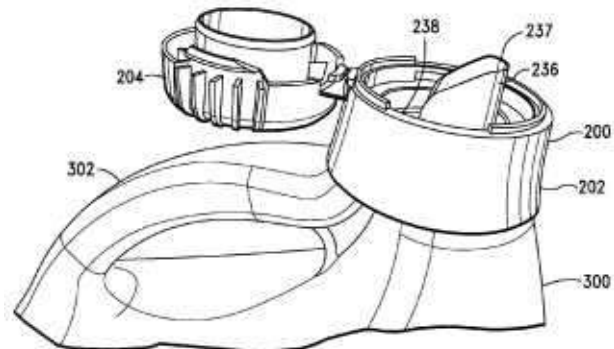
the **cap** body and capable of locking the locking protrusion. The lock mechanism serves as the **child-proof** mechanism, and the safety **cap** can be easily opened by a person with muscles weakened in gripping force, holding force, pressing force, or the like.

**23/113** © EPODOC / EPO

- PN - [JP2012131533](#) A 20120712
- PR - JP20100285306 20101222
- AP - [JP20100285306](#) 20101222
- DT - I
- FI - B65D41/04; B65D41/04&G; B65D47/08; B65D47/08&C; B65D47/08&120; B65D50/00; B65D55/02
- FT - 3E084/AA02; 3E084/AA12; 3E084/AA24; 3E084/AB09; 3E084/AB10; 3E084/BA01; 3E084/CA01; 3E084/CB04; 3E084/CC03; 3E084/DA01; 3E084/DB09; 3E084/DB14; 3E084/DC03; 3E084/FA03; 3E084/FC01; 3E084/GA08; 3E084/GB12; 3E084/GB13; 3E084/GB16; 3E084/GB17; 3E084/GB21; 3E084/HD03; 3E084/LA17; 3E084/LB02; 3E084/LB07
- PA - DAINIPPON PRINTING CO LTD
- TI - SAFETY **CAP**
- AB - PROBLEM TO BE SOLVED: To provide a safety **cap** which has a **child-proof** mechanism provided and can be opened with slight force.SOLUTION: A hinged **cap** includes a cylindrical **cap** body, a topped **lid** and a **hinge** for coupling the **cap** body with the **lid**, and has a fitting mechanism between the **cap** body and the **lid** formed. A lock mechanism is formed along a circumference of the hinged **cap**. The lock mechanism includes a locking protrusion integrally formed with the **cap** body and a locking portion integrally provided with the **lid** and capable of locking the locking protrusion. The lock mechanism serves as the **child-proof** mechanism, and the safety **cap** can be easily opened by a person with muscles weakened in gripping force, holding force, pressing force, or the like.

**24/113** © EPODOC / EPO

- PN - [WO2012024601](#) A1 20120223
- PR - US20100860045 20100820
- AP - [WO2011US48444](#) 20110819
- DT - \*\*
- CT - [US] ISR (A1)  
[US2008110849](#) A1 00000000 [Y]  
(WACHSBERG);  
[US2004074919](#) A1 00000000 [Y]  
(KNICKERBOCKER);  
[US4890770](#) A 00000000 [Y] (HAGA  
ET AL);  
[US2003201283](#) A1 00000000 [Y]  
(BRANSON ET AL);  
[US2005205607](#) A1 00000000 [Y]  
(HIERZER ET AL);  
[US4804119](#) A 00000000 [A]  
(GOODALL)
- CCI - [B65D47/06](#); [B65D47/0833](#)
- CCA - [B65D2251/1016](#)
- CI - B65D47/06 (EP)  
- B65D47/0833 (EP)



- CA - B65D2251/1016 (EP)
- PA - CLOROX CO [US]; WEBSTER JUDITH [US] ; AZELTON KERRY [US]; TOMKINS STEVE JAMES [US]; ROY BRANDON C [US]; KRAMMER CHRISTIAN [US]; HLAVACEK THOMAS [AT]; ZAUSER THOMAS [AT]
- TI - **CHILD RESISTANT** FLIP-TOP CLOSURE WITH POURING SPOUT
- AB - Described is a handled bottle having a flip top, **child-resistant** closure with a pour spout. An exemplary bottle comprises a container having a threaded neck on the container top front surface and having an enclosed handle on the container top rear surface wherein the neck comprises a container outlet and a separate handle inlet; a dispensing closure comprising a base member, a **cap** having a top and sidewalls, and a **hinge** connecting the base member and the **cap**, wherein the base member has a top wall with a depending outer concave flared sidewall and a depending intermediate wall having a pair of latches and a thread segment and connecting to an intermediate deck with a depending inner wall connecting to a lower deck having a beveled spout wherein the **cap** has a pair of tabs each having a tab wall connecting a tab lug that locks into one of the latches.

PN - [US2011114591](#) A1 20110519

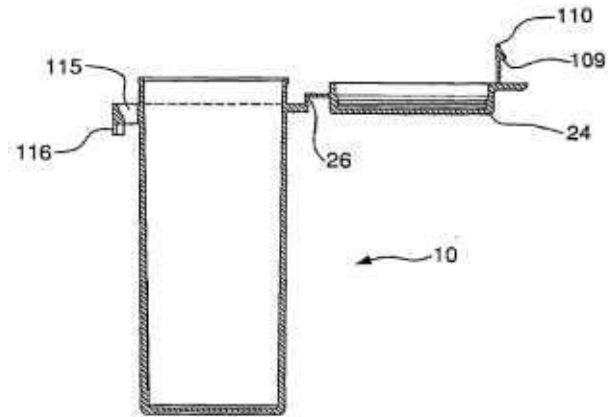
PNFP - US8807359 B2 20140819

PR - US20070997507  
20070316; US20060783637P  
20060317; US20060743759P  
20060324; WO2007US06693  
20070316

AP - [US20070997507](#) 20070316

DT - \*\*

CT - || R141 (A1)  
[US5083671](#) A 19920128 [ ] (HAYES  
THOMAS H [US]);  
[US6772902](#) B1 20040810 [ ] (WHITE  
COLIN [US]);  
[US4170315](#) A 19791009 [ ] (DUBACH  
WERNER F [CH], et al);  
[US4244495](#) A 19810113 [ ]  
(LORSCHIED WILLY, et al);  
[US4746008](#) A 19880524 [ ] (HEVERLY  
KAREN H [US], et al);  
[US4809874](#) A 19890307 [ ] (PEHR  
HAROLD T [US]);  
[US4892208](#) A 19900109 [ ] (SLEDGE  
LARRY C [US]);  
[US4974735](#) A 19901204 [ ] (NEWELL  
ROBERT E [GB], et al);  
[US5031784](#) A 19910716 [ ] (WRIGHT  
FRANK S [US]);  
[US5040691](#) A 19910820 [ ] (HAYES  
THOMAS H [US], et al);  
[US5137260](#) A 19920811 [ ] (PEHR  
HAROLD T [US]);  
[US5270011](#) A 19931214 [ ]  
(ALTHERR RALPH [CH]);  
[US5353946](#) A 19941011 [ ]  
(BEHREND GRACE A [US]);  
[US5427265](#) A 19950627 [ ]  
(CAUTEREELS VICTOR J J [BE], et al);  
[US5526953](#) A 19960618 [ ] (CHIENG  
WALTER [TW]);  
[US5577779](#) A 19961126 [ ] (DANGEL  
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[US5636756](#) A 19970610 [ ]  
(JOHNSON GUSTAV E [US]);  
[US5785179](#) A 19980728 [ ]  
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[US6523690](#) B1 20030225 [ ] (BUCK  
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[US2005023285](#) A1 20050203 [ ]  
(KEUNG WING-KWONG [US]);  
[US2005242105](#) A1 20051103 [ ]



(HOMANN SABINE [DE]);  
[US6986434](#) B1 20060117 [ ] (GETSY  
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[US2006186077](#) A1 20060824 [ ]  
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[US7581656](#) B2 20090901 [ ]  
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[US7717284](#) B2 20100518 [ ] (GIUSTI  
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[US8172101](#) B2 20120508 [ ] (GIUSTI  
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[US8167156](#) B2 20120501 [ ]  
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 - || STSE (B2)  
[US4170315](#) A 19791009 [ ] (DUBACH  
 WERNER F [CH], et al);  
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[US4974735](#) A 19901204 [ ] (NEWELL  
 ROBERT E [GB], et al);  
[US5031784](#) A 19910716 [ ] (WRIGHT  
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[US5040691](#) A 19910820 [ ] (HAYES  
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[US5083671](#) A 19920128 [ ] (HAYES  
 THOMAS H [US]);  
[US5137260](#) A 19920811 [ ] (PEHR  
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[US5785179](#) A 19980728 [ ]  
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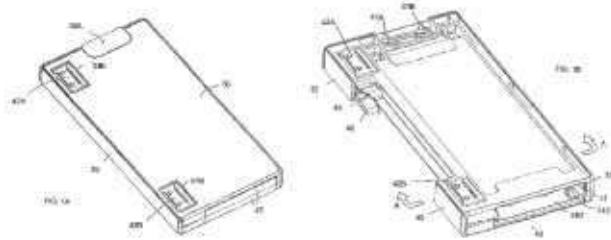
[US6523690](#) B1 20030225 [ ] (BUCK  
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COLIN [US]);  
[US6986434](#) B1 20060117 [ ] (GETSY  
STEPHEN B [US], et al);  
[US7581656](#) B2 20090901 [ ]  
(GNEPPER MAURICE R [US], et al);  
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[US8167156](#) B2 20120501 [ ]  
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[US8172101](#) B2 20120508 [ ] (GIUSTI  
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[US2005023285](#) A1 20050203 [ ]  
(KEUNG WING-KWONG [US]);  
[US2005242105](#) A1 20051103 [ ]  
(HOMANN SABINE [DE]);  
[US2006186077](#) A1 20060824 [ ]  
(ROBINSON PHILIP J [US])

- CCI - [B65D47/0804](#) ; [B65D50/045](#)
- CCA - [B65D2215/02](#)
- CI - B65D43/0202 (US)  
 - B65D47/0804 (EP, US)  
 - B65D50/00 (US)  
 - B65D50/045 (EP, US)  
 - B65D50/06 (US)
- CA - B65D2215/02 (EP, US)
- PA - (B2)  
 GIRAUD JEAN-PIERRE [US]; ZBIRKA  
 MICHEL [FR]; ROGERS JOSEPH W  
 [US] ; CSP TECHNOLOGIES INC [US]
- TI - (A1)  
 TAB RELEASE **CHILD** SAFETY  
 FEATURE  
 - (B2)  
 Tab release **child** safety feature
- AB - (A1 B2)  
 A **child-resistant** container  
 including a container body (10),  
 a **lid** (24), and at least one  
 resilient tab (110) is provided.  
 The **lid** is pivotable about an axis  
 through a **hinge** (26) joining the **lid**  
 to the container body to open  
 and close the container. The  
 resilient tab has a proximal  
 portion fixed to the **lid**, a distal

portion projecting from the **lid**, and at least one abutment (109) on the distal portion. The abutment on the distal portion of the tab is normally biased into engagement with an abutment (118) on the container body when the **lid** is in its closed position. The distal portion of the tab is displaceable against the bias to disengage the abutment of the tab from the abutment of the container. Displacement of the tab releases the **lid** so that it can be pivoted about the **hinge** to open the container.

**26/113** © EPODOC / EPO

- PN - [US2010193397](#) A1 20100805
- PR - GB20070014188  
20070720; WO2008GB02506  
20080721
- AP - [US20080668920](#) 20080721
- DT - \*\*
- CT - // R141 (A1)  
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[US2007023317](#) A1 00000000 [ ];  
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- CCI - [B65D43/162](#) ; [B65D50/066](#) ;  
[B65D83/0463](#)
- CCA - [B65D2215/04](#) ; [B65D2215/08](#)
- CI - B65D43/162 (EP, GB)  
B65D50/066 (EP, GB)  
B65D83/0463 (EP, GB)
- CA - B65D2215/04 (EP, GB)  
B65D2215/08 (EP, GB)
- PA - MEAD WESTVACO CORP [US]
- TI - CONTAINER
- AB - A container with **child-resistant**  
fastening means, the container



27/113 © EPODOC / EPO

PR - GB20070014189  
20070720; WO2008GB02476  
20080721

DT - \*\*

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US6021901 A 00000000 [ ];
US6349831 B1 00000000 [ ];
US6854618 B2 00000000 [ ];
US4998623 A 00000000 [ ];
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US2007045150 A1 00000000 [ ];
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US7093736 B2 00000000 [ ];
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CCA - [A61J2205/30](#)

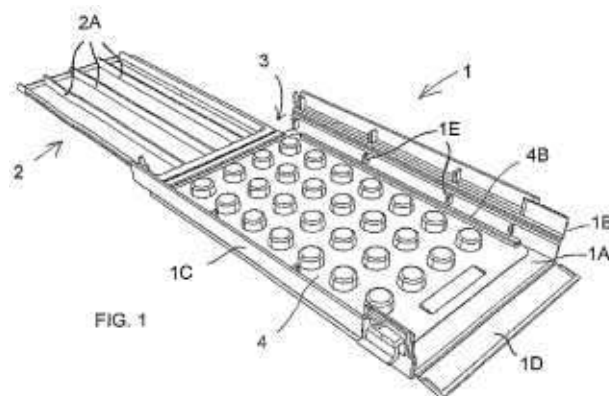
- A61J7/04 (EP)



CA - B65D83/0463 (EP, GB)  
 PA - A61J2205/30 (EP)  
 PA - MEAD WESTVACO CORP [US]  
 TI - DISPENSER  
 AB - A dispenser for housing at least one blister pack (comprising a generally planar face on one side thereof and one or more blisters on the opposite side thereof), the dispenser comprising a base portion, a **lid** portion, and a **hinge** portion connecting the base portion to the **lid** portion and about which the **lid** portion and/or base portion are movable between an open configuration and a closed configuration, e.g. in the form of an openable clamshell. The base portion and/or the **lid** portion has locating means for locating a blister pack within the dispenser and the locating means are adapted to enable sliding of the blister pack relative thereto in a direction substantially parallel to said planar face thereof between a storage position and at least one dispensing position. Preferred embodiments of the dispenser have 'senior-friendly' features and **child resistant** features.

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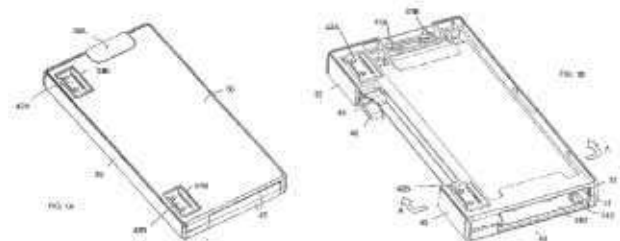
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 PNFP - GB2463816 A8 20100505  
 PR - WO2008GB02476  
 20080721; GB20070014189  
 20070720  
 AP - [GB20090022161](#) 20080721  
 DT - \*\*  
 CT - // STSE (A A8)  
[EP1762508](#) A2 00000000 [ ];  
[WO2004035421](#) A1 00000000 [ ]  
 CCI - [A61J1/035](#) ; [A61J7/04](#) ;  
[B65D83/0463](#)  
 CCA - [A61J2205/30](#)



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CI | <ul style="list-style-type: none"> <li>- A61J1/035 (EP)</li> <li>- A61J7/04 (EP)</li> <li>- B65D83/0463 (EP, GB)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CA | <ul style="list-style-type: none"> <li>- A61J2205/30 (EP)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PA | <ul style="list-style-type: none"> <li>- (A A8)</li> </ul> <p>MEADWESTVACO CORP [US]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TI | <ul style="list-style-type: none"> <li>- (A A8)</li> </ul> <p>Dispenser</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AB | <ul style="list-style-type: none"> <li>- (A)</li> </ul> <p>A dispenser for housing at least one blister pack (comprising a generally planar face on one side thereof and one or more blisters on the opposite side thereof), the dispenser comprising a base portion, a <b>lid</b> portion, and a <b>hinge</b> portion connecting the base portion to the <b>lid</b> portion and about which the <b>lid</b> portion and/or base portion are movable between an open configuration and a closed configuration, e.g. in the form of an openable clamshell. The base portion and/or the <b>lid</b> portion has locating means for locating a blister pack within the dispenser and the locating means are adapted to enable sliding of the blister pack relative thereto in a direction substantially parallel to said planar face thereof between a storage position and at least one dispensing position. Preferred embodiments of the dispenser have 'senior-friendly' features and <b>child resistant</b> features.</p> |

**29/113** © EPODOC / EPO

|    |                                                            |
|----|------------------------------------------------------------|
| PN | - <a href="#">GB2462577</a> A 20100217                     |
| PR | - GB20070014188<br>20070720; WO2008GB02506<br>20080721     |
| AP | - <a href="#">GB20090022516</a> 20091223                   |
| DT | - **                                                       |
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- CCI - [B65D43/162](#) ; [B65D50/066](#) ;  
[B65D83/0463](#)
- CCA - [B65D2215/04](#) ; [B65D2215/08](#)
- CI - B65D43/162 (EP, GB)  
 - B65D50/066 (EP, GB)  
 - B65D83/0463 (EP, GB)
- CA - B65D2215/04 (EP, GB)  
 - B65D2215/08 (EP, GB)
- PA - MEADWESTVACO CORP [US]
- TI - Container
- AB - A container with **child-resistant** fastening means, the container comprising base (31), a **lid** (32), and a **hinge** (33) connecting the base (31) to the **lid** (32) and about which the **lid** (32) is movable between an open position and a closed position, the fastening means comprising first interlocking means (31A, 32A) for resisting opening movement of the **lid** (31) in a first direction (D) relative to the base portion (31) and which is releasable upon relative movement between the **lid** (32) and base (31) in a second direction (B), and second interlocking means (31B) which resist relative movement of the **lid** (32) and base (31) in the second direction (B) and which is releasable upon pressure (C) being applied to release means (42A, 42B) in two spaced apart locations.

PN - [NZ554554](#) A 20090925

PR - WO2005US33374  
20050920; US20040975689 20041027

AP - [NZ20050554554](#) 20050920

DT - I

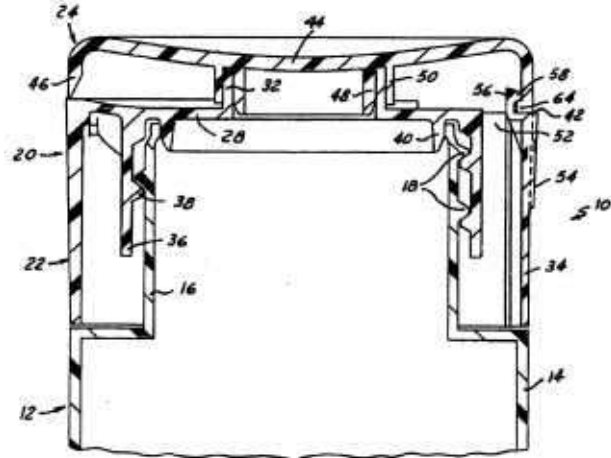
CCI - [B65D47/0804](#) ; [B65D50/046](#)

CI - B65D47/0804 (EP)  
B65D50/046 (EP)

PA - REXAM CLOSURE SYSTEMS INC

TI - **Child-resistant** dispensing closure,  
package and method of  
manufacture

AB - A **child-resistant** dispensing  
closure includes a base (22)  
having a deck (28), a dispensing  
opening (30) in the deck and a  
peripheral skirt (34) extending  
from the deck. A **lid** (24) is  
integrally hinged to the base for  
movement between a closed  
position overlying the deck and  
an open position spaced from  
the deck. The base has an  
opening (52) in the deck adjacent  
to the peripheral skirt and  
opposite from the **hinge**, and a  
tab (56) extends from the skirt  
adjacent to the opening. The **lid**  
has a lug (64) for snap-coupling  
over an exterior of the tab in the  
closed position of the **lid**. The  
peripheral skirt is resiliently  
flexibly moveable into the  
opening to move the tab out of  
engagement with the lug on  
the **lid** skirt and thereby permit  
movement of the **lid** to the open  
position.



PN - [GB2464791](#) A 20100505

PR - US20080092988P 20080829

AP - [GB20090014908](#) 20090827

DT - \*\*

CT - || STSE (A)  
[EP0752374](#) A1 19970108 [ ]  
 (GROUPE GUILLIN SA [FR]);  
[FR2811638](#) A1 20020118 [ ] (TULIPIA [FR]);  
[US5507406](#) A 19960416 [ ]  
 (URCIUOLI HENRY R [US], et al);  
[US2007138046](#) A1 20070621 [ ]  
 (VOVAN TERRY [US])

CCI - [B65D43/021](#)

CCA - [B65D2401/10](#) ; [B65D2543/00092](#) ;  
[B65D2543/00296](#) ;  
[B65D2543/00509](#) ; [B65D2543/0062](#) ;  
[B65D2543/00685](#) ;  
[B65D2543/00731](#) ; [B65D2543/00796](#)

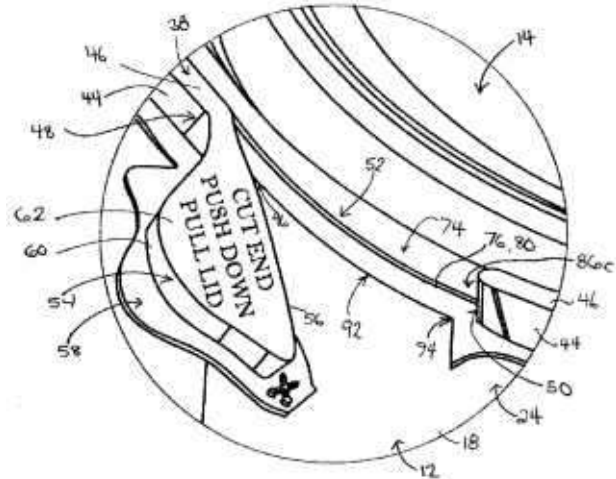
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 B65D2543/00296 (EP, GB, US)  
 B65D2543/00509 (EP, US)  
 B65D2543/0062 (EP, US)  
 B65D2543/00685 (EP, US)  
 B65D2543/00731 (EP, US)  
 B65D2543/00796 (EP, US)

PA - PARIKH SAMIR R [CA] ; CHENAT  
 SAJITH [GB]

TI - Snap-Fit **Lid** with Tamper Evident  
 Lock Member

AB - A container has receptacle 12 and **lid** 14, the receptacle having a bottom panel, side wall 18 and **lid** coupling region 22 coupling with portion 68 of the **lid**, surface 26 forms a recess 28 receiving projection 70 of the **lid**, seating surface 36 seating **lid** flange 74 and barrier wall 42-46 concealing a portion of the flange so a user cannot grip it, locking member (54, figure 3) being formed in a gap in the barrier wall having a member wall (56 figure 3) which prevents



the user accessing a gripping portion (80, figure 3) of the flange until moved to an unblocking position (figure 4). The seating surface may have a tab (58, figure 3), locking member being a button on the tab which must be pushed down or cut to open the container, providing a tamper and **child proof** container. Thus the **lid** is snap-fit and re-sealable. The tab or seating surface may have slots or frangible or severable portions or marks for cutting and may have a scored **hinge** line (64, figure 3). The bottom panel may have an annular indent co-operating with a rib on the **lid** for stacking.

**32/113** © EPODOC / EPO

PN - [MXPA06014119](#) A 20081024  
 PR - US20050743006P 20051202; US20060564769 20061129  
 AP - [MX2006PA14119](#) 20061204  
 DT - I  
 CCI - [B65D47/0809](#) ; [B65D50/046](#)  
 CI - B65D47/0809 (EP)  
 - B65D50/046 (EP)  
 PA - BERRY PLASTICS CORP [US]  
 TI - **CHILD-RESISTANT** CLOSURE .  
 AB - A **child-resistant** closure is provided for connection to a container. The closure includes a base and a **cap**. The **cap** is secured to the base of the closure by use of a **hinge**.

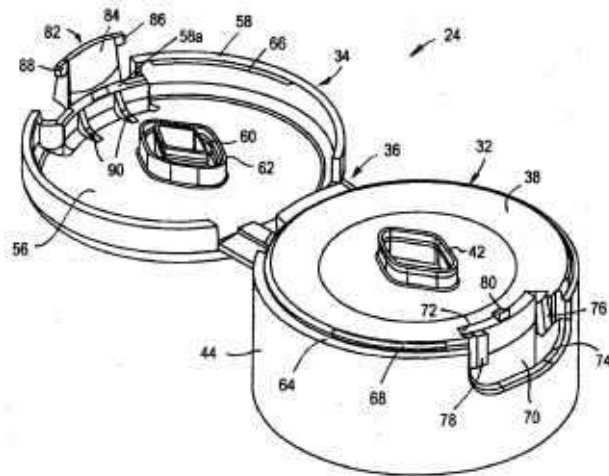
**33/113** © EPODOC / EPO

PN - [MXPA06014641](#) A 20080311  
 PR - EP20040253917 20040630; WO2005EP53085 20050629  
 AP - [MX2006PA14641](#) 20050629  
 DT - I  
 CCI - [B65D47/0804](#) ; [B65D50/046](#)  
 CCA - [B65D2251/105](#)  
 CI - B65D47/0804 (EP)  
 - B65D50/046 (EP)  
 CA - B65D2251/105 (EP)  
 PA - OBRIST CLOSURES SWITZERLAND [CH]  
 TI - DISPENSING CLOSURE.  
 AB - A **child resistant** dispensing closure 1 having a smooth external surface. The closure 1

comprises a body 2 and a **lid** 3, connected together by a **hinge** 5. The **lid** 3 is held closed against the body 2 by a catch 6. The closure 1 has a resilient ring 4, which in its deformed configuration co-operates with the catch 6 to unlock it and provides a lifting region 65, by which a user may lift the **lid** 3 of the closure1.

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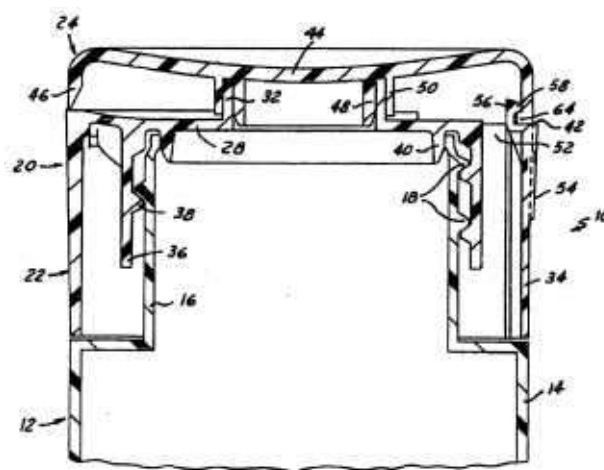
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- PR - WO2006US04084  
20060207; US20050062177 20050218
- AP - [MX20070009525](#) 20060207
- DT - I
- CCI - [B65D47/0814](#) ; [B65D50/046](#)
- CCA - [B65D2215/02](#)
- CI - B65D47/0814 (EP)  
B65D50/046 (EP)
- CA - B65D2215/02 (EP)
- PA - OWENS ILLINOIS CLOSURE INC [US]
- TI - **CHILD-RESISTANT** FLIP-TOP  
DISPENSING CLOSURE, PACKAGE  
AND METHOD OF MANUFACTURE.
- AB - A **child-resistant** dispensing closure includes a base (32) having a deck (38) with a dispensing opening (42), a peripheral skirt (44) extending from the deck, and an inner wall (46) extending from the deck for securing the closure to a container. An axial passage (70) extends from the deck between the peripheral skirt and the inner wall, and opens radially outwardly through the peripheral skirt. A pair of spaced ledges (76, 78) are disposed in the axial passage. A **lid** (34) is molded integrally with the base and is coupled by a **hinge** (36) to the base so as to be pivotable between a closed position overlying the deck and an open position spaced from the deck. The **lid** has a latch arm (82) that resiliently extends from a periphery of the **lid**. The latch arm has a pair of oppositely extending tabs (86, 88) for engagement with the ledges to lock the **lid** in the closed



position. The latch arm is directly manually engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the lid can be pivoted toward the open position drawing the latch arm out of the axial passage.

35/113 © EPODOC / EPO

- PN - [MX2007004866](#) A 20070611
- PR - US20040975689  
20041027; WO2005US33374  
20050920
- AP - [MX20070004866](#) 20050920
- DT - I
- CCI - [B65D47/0804](#) ; [B65D50/046](#)
- CI - B65D47/0804 (EP)  
- B65D50/046 (EP)
- PA - OWENS ILLINOIS CLOSURE INC [US]
- TI - **CHILD-RESISTANT** DISPENSING  
CLOSURE, PACKAGE AND METHOD  
OF MANUFACTURE.
- AB - A **child-resistant** dispensing closure includes a base (22) having a deck (28), a dispensing opening (30) in the deck and a peripheral skirt (34) extending from the deck. A **lid** (24) is integrally hinged to the base for movement between a closed position overlying the deck and an open position spaced from the deck. The base has an opening (52) in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a tab (56) extends from the skirt adjacent to the opening. The lid has a lug (64) for snap-coupling over an exterior of the tab in the closed position of the **lid**. The peripheral skirt is resiliently flexibly moveable into the opening to move the tab out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the



open position.

**36/113** © EPODOC / EPO

PN - [MXPA05013419](#) A 20070608  
PR - MX2005PA13419 20051209  
AP - [MX2005PA13419](#) 20051209  
DT - I  
PA - SIPPCUP LLC [US]  
TI - UNITARY SIPPY CONTAINER.  
AB - There is disclosed a **child resistant** sippy container of single piece construction and a process of preventing spills. The sippy container may comprise a singular body and **lid**. The **lid** may be detachable from a rim of the body. The process comprise the steps of providing a single piece sippy container; when folding a **hinge** of the sippy container, a **lid** of the sippy container may attach to a body of the sippy container, and a bottom of the lip of the **lid** may be positioned flush with a flange of the body; when a force is applied to a spout of the **lid**, the **lid** may resist detaching from the body based on the proximity of the spout to the **hinge**.

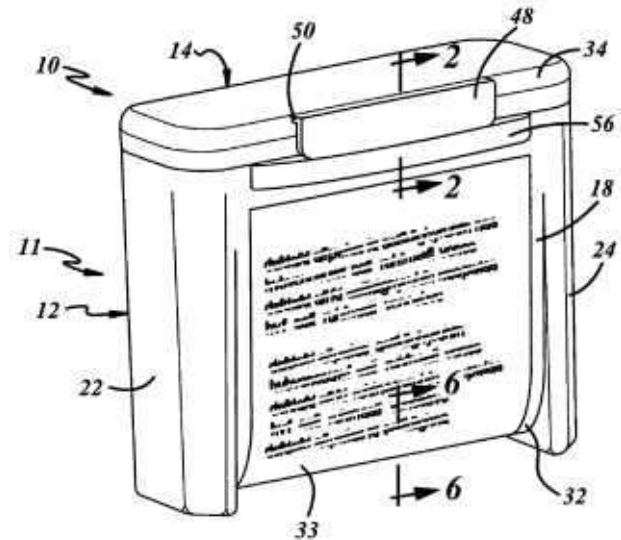
**37/113** © EPODOC / EPO

PN - [US2008251573](#) A1 20081016  
PR - WO2006FR02188 20060925; FR20050009770 20050923  
AP - [US20060066775](#) 20060925  
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CI - B65D11/04 (EP)  
- B65D47/0809 (EP)  
- B65D81/266 (EP)  
PA - AIRSEC [FR]  
TI - One Piece Container with Hinged **Cap/Lid**  
AB - A container for packaging products includes an envelope formed by a skirt extending over the entire length of the body of the container, where the base is open prior to being filled, a reversible closable closure such as a **cap** or **lid** having a **hinge** linking the reversible closure to the envelope, optional tamperproof means, optional **child-resistant**

opening means, and means for closing the open end of the envelope. The container includes a device for controlling its internal atmosphere.

38/113 © EPODOC / EPO

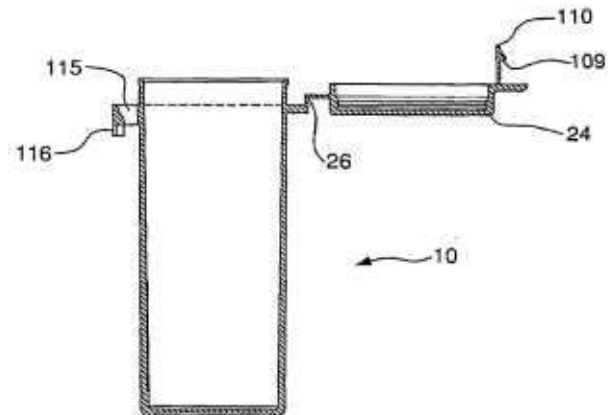
- PN - [WO2008010916](#) A1 20080124
- PR - US20060487665 20060717
- AP - [WO2007US15491](#) 20070705
- DT - \*\*
- CT - [EP] ISR (A1)  
[EP1236651](#) A1 00000000 [A] (FUJI PHOTO FILM BV [NL])  
 [A] 1-12  
 \* paragraph [0028] - paragraph [0029]; figures 3,4 \*;  
[US5368798](#) A 00000000 [A]  
 (MIZUKOSHI KOUBU [JP] ET AL)  
 [A] 1-12  
 \* column 1, line 66 - column 3, line 35; figures 1-4 \*
- CCI - [B65D1/40](#) ; [B65D25/205](#) ;  
[B65D43/162](#)
- CCA - [B65D2215/04](#)
- CI - B65D1/40 (EP)  
 B65D25/205 (EP)  
 B65D43/162 (EP)
- CA - B65D2215/04 (EP)
- PA - OWENS IL HEALTHCARE  
 PACKAGING [US]; GNEPPER  
 MAURICE R [US]; SHINGLE JOHN M  
 [US]
- TI - ONE-PIECE BOX-SHAPED  
 CONTAINER WITH LARGE LABEL  
 WRAP SURFACE
- AB - A container includes a container base (12) and a lid (14) interconnected by a hinge (16) and being of one-piece integrally molded plastic construction. The container base is of generally rectangular outline having a back wall (20) to which the hinge is connected, a front wall (18), opposite sidewalls (22, 24) and an open end (26). The front wall is connected to the back wall opposite the open end by a continuously curving end wall (32) so that the front wall, the back wall and the continuously



curving end wall form a continuous surface for application of a label to the front wall, the back wall and the continuously curving end wall. The sidewalls have flat coplanar edges (28, 30) opposite the open end to permit the container to be stood on end with the open end facing upwardly. The container preferably includes a **child-resistant** latch (42) having a first latch element (44) on the Hd opposite the **hinge** and a second latch element (46) on the front wall of the container ban adjacent to the open end and opposite the **hinge**. A continuous label (33) may be applied to the front wall, the back wall and the continuously curving end wall of the container.

**39/113** © EPODOC / EPO

PN - [WO2007109166](#) A2 20070927  
 PNFP - [WO2007109166](#) A3 20080807  
 PR - US20060743759P  
 20060324; US20060783637P  
 20060317  
 AP - [WO2007US06693](#) 20070316  
 DT - \*; Rep  
 CT - *[US]* *ISR (A3)*  
[US4746008](#) A 00000000 [X];  
[US6662454](#) B2 00000000 [X];  
[US6772902](#) B1 00000000 [X]  
 CCI - [B65D47/0804](#) ; [B65D50/045](#)  
 CCA - [B65D2215/02](#)  
 CI - B65D43/0202 (US)  
 - B65D47/0804 (EP, US)  
 - B65D50/00 (US)  
 - B65D50/045 (EP, US)  
 - B65D50/06 (US)  
 CA - B65D2215/02 (EP, US)  
 PA - (A2 A3)  
 CSP TECHNOLOGIES INC [US];  
 GIRAUD JEAN-PIERRE [FR]; ZBIRKA  
 MICHEL [FR]; ROGERS JOSEPH W  
 [US]  
 TI - (A2 A3)



TAB RELEASE **CHILD** SAFETY  
FEATURE

AB

- (A2)

A **child-resistant** container including a container body, a **lid**, and at least one resilient tab is provided. The **lid** is pivotable about an axis through a **hinge** joining the **lid** to the container body to open and close the container. The resilient tab has a proximal portion fixed to the **lid**, a distal portion projecting from the **lid**, and at least one abutment on the distal portion. The abutment on the distal portion of the tab is normally biased into engagement with an abutment on the container body when the **lid** is in its closed position. The distal portion of the tab is displaceable against the bias to disengage the abutment of the tab from the abutment of the container. Displacement of the tab releases the **lid** so that it can be pivoted about the **hinge** to open the container.

- (A3)

A **child-resistant** container including a container body (10), a **lid** (24), and at least one resilient tab (110) is provided. The **lid** is pivotable about an axis through a **hinge** (26) joining the **lid** to the container body to open and close the container. The resilient tab has a proximal portion fixed to the **lid**, a distal portion projecting from the **lid**, and at least one abutment (109) on the distal portion. The abutment on the distal portion of the tab is normally biased into engagement with an abutment (118) on the container body when the **lid** is in its closed position. The distal portion of the tab is displaceable against the bias to disengage the abutment of the tab from the

abutment of the container.  
 Displacement of the tab  
 releases the **lid** so that it can be  
 pivoted about the **hinge** to open  
 the container.

**40/113** © EPODOC / EPO

PN - [WO2007062006](#) A2 20070531

PNFP - WO2007062006 A3 20071101

PR - US20050285597 20051122

AP - [WO2006US45002](#) 20061117

DT - \*; Rep

CT - *[EP] ISR (A3)*  
[US4170315](#) A 00000000 [X] (DUBACH WERNER F [CH] ET AL)  
*[X] 1,3,4,8,13*  
*\* column 5, lines 3-28,48-57 \**  
*\* figures 1,2 \*;*  
[US2005023285](#) A1 00000000 [DA] (KEUNG WING-KWONG [US])  
*[DA] 1,13*  
*\* abstract \*;*  
[JP2003104429](#) A 00000000 [A] (YOSHINO KOGYOSHO CO LTD)  
*[A] 1,13*  
*\* abstract \**

CCI - [B65D47/0804](#) ; [B65D50/046](#)

CCA - [B65D2215/02](#)

CI - B65D47/0804 (EP)

- B65D50/046 (EP)

CA - B65D2215/02 (EP)

PA - (A2 A3)  
 OWENS ILLINOIS CLOSURE INC [US]; KEUNG WING-KWONG [US]

TI - (A2 A3)  
**CHILD-RESISTANT FLIP-TOP DISPENSING CLOSURE AND PACKAGE**

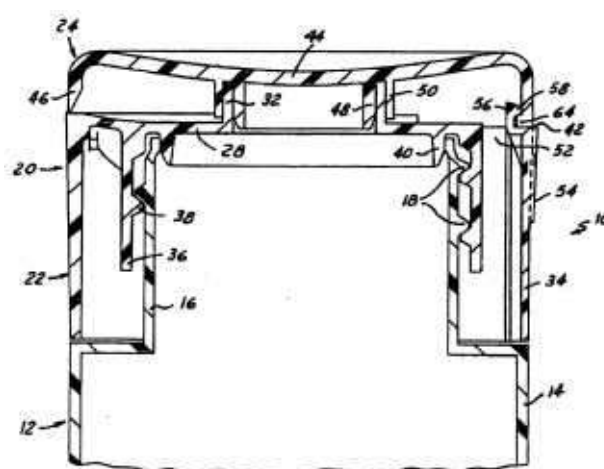
AB - (A2 A3)  
 A **child-resistant** closure includes a base (32) and a **lid** (34) is molded integrally with the base. The **lid** is coupled by a **hinge** (36) to the base to be pivotable between a closed position and an open position. One of the base and the **lid** has a latch arm (36) resiliently extending from a periphery opposite the **hinge**. The latch arm has a pair of oppositely extending tabs (58) adjacent to a free end of the latch arm. The other of the base and the **lid** has an external recess (46) for receiving the latch arm and a pair of laterally spaced ledges (48) in the recess for engagement by the tabs to lock the **lid** in the closed position. The latch arm in the recess is directly manually engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the **lid** can be pivoted toward the open position. The tabs on the latch arm and the ledges in the recess are recessed radially inwardly from the outer surface of the latch arm in the closed position of the **lid** with the tabs engaged beneath the ledges. In this way, the latch arm can be pushed radially inwardly to release the **lid** without the user's fingers touching the ledges in the recess.



periphery of the **lid**. The latch arm has a pair of oppositely extending tabs (86, 88) for engagement with the ledges to lock the **lid** in the closed position. The latch arm is directly manually engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the **lid** can be pivoted toward the open position drawing the latch arm out of the axial passage.

**42/113** © EPODOC / EPO

- PN - [WO2006049713](#) A2 20060511
- PNFP - WO2006049713 A3 20060608
- PR - US20040975689 20041027
- AP - [WO2005US33374](#) 20050920
- DT - \*\*
- CT - |EP| ISR (A3)  
[US4629081](#) A 00000000 [X]  
 (MCLAREN ET AL)  
 [X] 1,3-5,14,15  
 \* column 1, line 59 - column 2, line 8  
 \*  
 \* column 2, line 16 - line 22; figure -  
 \*;  
[US5860543](#) A 00000000 [X]  
 (DECELLES ET AL)  
 [X] 1,3,4,14,15  
 \* column 5, line 11 - line 28; figure -  
 \*;  
[EP0379775](#) A1 00000000 [A]  
 (OWENS-ILLINOIS CLOSURE INC.,)  
 [A] 1,10  
 \* abstract \*;  
[US4209100](#) A 00000000 [A] (UHLIG,  
 ALBERT R)  
 [A] 10,13  
 \* abstract \*;  
[US5579957](#) A 00000000 [A]  
 (GENTILE ET AL)  
 [A] 1,9  
 \* column 3, line 54 - line 55 \*  
 \* column 4, line 9 - line 13; figure - \*;  
[EP0289111](#) A2 00000000 [A]  
 (POLYTOP CORPORATION)  
 [A] 1,9,10



*\* abstract \**

- CCI - [B65D47/0804](#) ; [B65D50/046](#)
- CI - B65D47/0804 (EP)  
- B65D50/046 (EP)
- PA - (A2 A3)  
OWENS ILLINOIS CLOSURE INC [US]  
; ROBINSON PHILIP J [US]
- TI - (A2 A3)  
**CHILD-RESISTANT** DISPENSING  
CLOSURE, PACKAGE AND METHOD  
OF MANUFACTURE
- AB - (A2 A3)  
A **child-resistant** dispensing  
closure includes a base (22)  
having a deck (28), a dispensing  
opening (30) in the deck and a  
peripheral skirt (34) extending  
from the deck. A **lid** (24) is  
integrally hinged to the base for  
movement between a closed  
position overlying the deck and  
an open position spaced from  
the deck. The base has an  
opening (52) in the deck adjacent  
to the peripheral skirt and  
opposite from the **hinge**, and a  
tab (56) extends from the skirt  
adjacent to the opening. The **lid**  
has a lug (64) for snap-coupling  
over an exterior of the tab in the  
closed position of the **lid**. The  
peripheral skirt is resiliently  
flexibly moveable into the  
opening to move the tab out of  
engagement with the lug on  
the **lid** skirt and thereby permit  
movement of the **lid** to the open  
position.

**43/113** © EPODOC / EPO

- PN - [WO2005026013](#) A2 20050324
- PNFP - WO2005026013 A3 20050616
- PR - US20030500428P 20030905; US20040538596P 20040123
- AP - [WO2004US28760](#) 20040903
- DT - \*; Rep
- CT - */EP/ ISR (A3)*  
[WO9749615](#) A1 00000000 [XY] (WIT PLASTIC B V DE ; EIJK DANIEL JOHANNES VAN (NL); KUIJK  
ERIK VAN (NL)  
[X] 1-4

*\* page 7, paragraph 1 - page 9, paragraph 1; figures 1,2 \**

[Y] 12-16;

DE8532151U U1 00000000 [A] (TTP LEIBFARTH GMBH)

[A] 1,12,13

*\* figures 1,2; claim 1 \*;*

[US4925041](#) A 00000000 [A] (PEHR HAROLD T)

[A] 1,12,13

*\* abstract \*;*

[US4783056](#) A 00000000 [YD] (ABRAMS ROBERT S)

[YD] 12-14

*\* column 3, paragraph 1 - column 4, paragraph 1; figure 5; claim 1 \*;*

[US6080350](#) A 00000000 [YD] (HEKAL IHAB M)

[YD] 15,16

*\* abstract \**

CCI - [B65D50/045](#) ; [B65D50/069](#)

CCA - [B65D2215/02](#)

CI - B65D50/045 (EP)

- B65D50/069 (EP)

CA - B65D2215/02 (EP)

PA - (A2 A3)

CSP TECHNOLOGIES INC [US]; GIRAUD JEAN-PIERRE [FR]

TI - (A2 A3)

UNITARY CONTAINER AND FLIP-TOP **CAP** ASSEMBLY HAVING **CHILD RESISTANT** SAFETY FEATURES

AB - (A2)

Containers with **child resistant** safety caps are disclosed herein. In one embodiment, the **cap** contains (1) an overlay portion and (2) a solid base. The overlay fits over at least a portion of the **cap's** solid base. At an end of a first portion of the overlay, the overlay has a thumb tab for facilitating the opening and closing of the **cap**. Two notches are in the overlay's tubular skirt and located on opposing sides of the overlay where the first end portion meets the second end portion. When the **cap** is shut, the overlay is secured directly over the **cap**. If an upward force is only applied to the thumb tab, and then the first end portion of the overlay is lifted up but the solid base of the **cap** remains secured to the container. If an upward force is applied to the thumb tab while, simultaneously, sufficient inward force is applied to opposing sides of the overlay so as to contact and secure the tubular skirt of the **cap**, then the solid base of the **cap** is simultaneously lifted up along with the first end portion of the overlay thereby opening the container. In a second embodiment, the container and **cap** assembly contains a sliding part in the **cap**. The sliding part may be supplied separate from the container and **cap** assembly, allowing the user to determine if a **child-resistant** or non-**child resistant cap** is formed. In the **child resistant** embodiment, the sliding part is configured within the **cap** whereby at least a portion of the sliding part protrudes out from the **cap** in a location near or proximate to the **hinge**. To open the **cap**, the user applies sufficient force to the sliding part, pushing it in a direction away from the **hinge** so that at least a portion the sliding part protrudes out of the portion of the **cap** that is substantially opposite the **hinge**. Then the user applies a second sufficient force in an upward direction to open the **cap**.

- (A3)

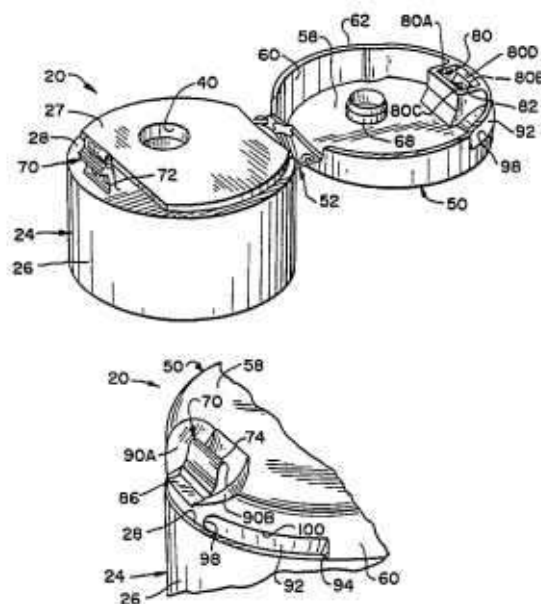
Containers (1,20) with **child resistant** safety caps (30,84) are disclosed herein. In one embodiment, the **cap** (30) contains an overlay portion (60) comprising a first portion (65) having a thumb tab (36) and a solid base (31). The overlay (60) fits over the **cap's** solid

base (31). If an upward force is only applied to the thumb tab (36), the solid base (31) remains secured to the container. If an upward force is applied to the thumb tab (36) while, simultaneously, inward force is applied to opposing sides of the overlay (60), then the solid base (31) of the **cap** is simultaneously lifted up along with the first portion of the overlay thereby opening the container (20). In a second embodiment, the container (1) and **cap** assembly contains a sliding part (82) in the **cap**. In this embodiment, the sliding part (82) is configured within the **cap** (84) whereby, to open the **cap**, the user applies force to the sliding part and a second force in an upward direction to open the **cap**.

44/113 © EPODOC / EPO

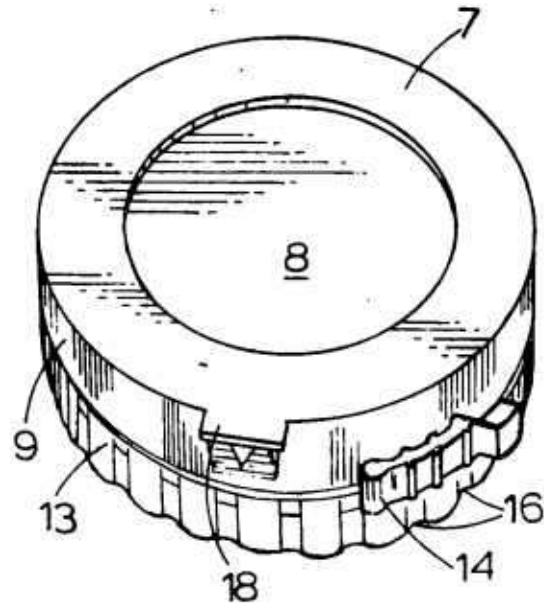
PN - [US5356017](#) A 19941018  
 PR - US19920967759 19921028  
 AP - [US19920967759](#) 19921028  
 DT - \*\*  
 CT - // STSE (A)  
[US3869057](#) A 00000000 [ ];  
[US4002275](#) A 00000000 [ ];  
[US4022352](#) A 00000000 [ ];  
[US4065035](#) A 00000000 [ ];  
[US4127221](#) A 00000000 [ ];  
[US4170315](#) A 00000000 [ ];  
[US4353483](#) A 00000000 [ ];  
[US4722449](#) A 00000000 [ ];  
[US4787526](#) A 00000000 [ ];  
[US4809874](#) A 00000000 [ ];  
[US4852770](#) A 00000000 [ ];  
[US4854473](#) A 00000000 [ ];  
[US4925041](#) A 00000000 [ ];  
[US5013073](#) A 00000000 [ ];  
[US5031784](#) A 00000000 [ ];  
[US5040691](#) A 00000000 [ ];  
[US5065911](#) A 00000000 [ ];  
[US5092493](#) A 00000000 [ ];  
[US5096077](#) A 00000000 [ ];  
[US5137260](#) A 00000000 [ ];  
[US5147054](#) A 00000000 [ ]

CTNP - // STSE (A)  
 [ ] -  
 Devices That Protect Products ,  
 Shellvick Industries, Inc.  
 publicationSep. 1991.  
 [ ] -  
 Automatic Recess Latch Closure ,  
 Shellvick Industries, Inc.  
 publicationFeb. 1991.  
 [ ] -  
 Automatic Reset Window Sash  
 Lock , Shellvick Industries, Inc.  
 publicationno date.  
 [ ] - Two sheets of photographs



|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | A G.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CCI | - <a href="#">B65D47/0838</a> ; <a href="#">B65D50/045</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CCA | - <a href="#">B65D2251/1016</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CI  | - B65D47/0838 (EP)<br>- B65D50/045 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CA  | - B65D2251/1016 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PA  | - APTARGROUP INC [US]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TI  | - <b>Child resistant</b> closure with recessed latch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AB  | - A <b>child-resistant</b> closure is provided with a base having a deck with a discharge aperture. A <b>lid</b> having a bottom surface for engaging the base is hingedly connected to the base. The base has a resilient locking lever that projects the base deck at a location inwardly of the periphery of the base. The lever defines a shoulder. The <b>lid</b> has a central cover panel defining an aperture inwardly of the periphery of the <b>lid</b> for receiving the lever when the <b>lid</b> is closed. The <b>lid</b> defines a latch surface adjacent the aperture for confronting the base lever shoulder when the <b>lid</b> is closed. The periphery of the <b>lid</b> defines a finger-engaging surface laterally offset relative to the <b>lid</b> aperture, and the finger-engaging surface extends progressively outwardly with increasing distance from the <b>lid</b> bottom surface. The portion of the base that extends from the <b>hinge</b> connection is configured to project peripherally outwardly at least as far as the <b>lid</b> bottom surface when the <b>lid</b> is closed. The portion of the <b>lid</b> periphery that extends from the <b>hinge</b> connection is free of overhanging peripheral surfaces of sufficient depth to be liftingly engaged by a <b>child's</b> teeth. |

PN - [US4043475](#) A 19770823  
 PR - US19760732896 19761015  
 AP - [US19760732896](#) 19761015  
 DT - \*; Rep  
 CT - || STSE (A)  
       [US3877598](#) A 00000000 [ ];  
       [US3980194](#) A 00000000 [ ]  
 CCI - [B65D50/061](#)  
 CI - B65D50/061 (EP)  
 PA - GLYNDON PLASTICS LIMITED  
 TI - Caps and containers  
 AB - A **cap** and container assembly which is both **tamper-proof** and **child-resistant** comprises a container neck with first and second external beads, the first bead extending only part way round the neck and having a lug midway between its ends, and the **cap** has an internal bead with a gap in it matching the lug and also has a tear-off strip connected to a shoulder that engages under the second bead on the neck so that even after removal of the strip the **cap** still has to be turned to bring the gap opposite the lug before it can be removed. The shoulder may be on an anchor band which fits permanently under the second bead. The **cap** may be permanently joined to this anchor band by a **hinge web**.



46/113 © EPODOC / EPO

PN - [US6296130](#) B1 20011002  
 PR - US19990314372 19990519; US20000717329 20001120  
 AP - [US20000717329](#) 20001120  
 DT - \*; Rep  
 CT - || STSE (B1)  
       [US3399796](#) A 00000000 [ ];  
       [US3612323](#) A 00000000 [ ];  
       [US3698584](#) A 00000000 [ ];  
       [US3722727](#) A 00000000 [ ];  
       [US3805987](#) A 00000000 [ ];  
       [US3826395](#) A 00000000 [ ];  
       [US3831797](#) A 00000000 [ ];

[US3841514](#) A 00000000 [ ];  
[US3891110](#) A 00000000 [ ];  
[US3895730](#) A 00000000 [ ];  
[US4172533](#) A 00000000 [ ];  
[US4326649](#) A 00000000 [ ];  
[US4401225](#) A 00000000 [ ];  
[US4413742](#) A 00000000 [ ];  
[US4479585](#) A 00000000 [ ];  
[US4500006](#) A 00000000 [ ];  
[US4687112](#) A 00000000 [ ];  
[US4752013](#) A 00000000 [ ];  
[US4752014](#) A 00000000 [ ];  
[US5213223](#) A 00000000 [ ];  
[US5238130](#) A 00000000 [ ];  
[US5449077](#) A 00000000 [ ];  
[US5603421](#) A 00000000 [ ];  
[US5671853](#) A 00000000 [ ];  
[US5722546](#) A 00000000 [ ];  
[US5803287](#) A 00000000 [ ];  
[US5908125](#) A 00000000 [ ];  
[US5915576](#) A 00000000 [ ];  
[US6039196](#) A 00000000 [ ];  
[US6047840](#) A 00000000 [ ];  
[EP0369166](#) A2 00000000 [ ];  
[GB2108095](#) A 00000000 [ ]

- CCI - [B65D50/046](#)
- CI - B65D50/046 (EP)
- PA - WEATHERCHEM CORP [US]
- TI - Anti back off screw on closure
- AB - Screw on caps for bottles that have an anti back off feature formed on a hinged tab of the **cap** engaging detent teeth below the threads on the bottle. The **hinge** has a unique configuration that enables the tab to snap into and hold a gripping position while avoiding temporary distortion or creep. The detent teeth are particularly suited for use with blow molded bottles and are capable of restraining a **cap** within a small angle of a fully tightened position to avoid any significant back off and potential leakage. In one embodiment, the anti back off feature is provided in a **child resistant cap** while in another embodiment this feature is provided in a simpler continuous thread **cap**.

PN - [US5765705](#) A 19980616

PR - US19960689087 19960730

AP - [US19960689087](#) 19960730

DT - \*\*

CT - *// STSE (A)*  
 USRE29793E 00000000 [ ];  
[US3850326](#) A 00000000 [ ];  
[US4022352](#) A 00000000 [ ];  
[US4042105](#) A 00000000 [ ];  
[US4244495](#) A 00000000 [ ];  
[US4444326](#) A 00000000 [ ];  
[US4629081](#) A 00000000 [ ];  
[US4718567](#) A 00000000 [ ];  
[US4759455](#) A 00000000 [ ];  
[US4782964](#) A 00000000 [ ];  
[US4807768](#) A 00000000 [ ];  
[US4821898](#) A 00000000 [ ];  
[US4838441](#) A 00000000 [ ];  
[US4892208](#) A 00000000 [ ];  
[US5033634](#) A 00000000 [ ];  
[US5092493](#) A 00000000 [ ];  
[US5137260](#) A 00000000 [ ];  
[US5180072](#) A 00000000 [ ];  
[US5207657](#) A 00000000 [ ]

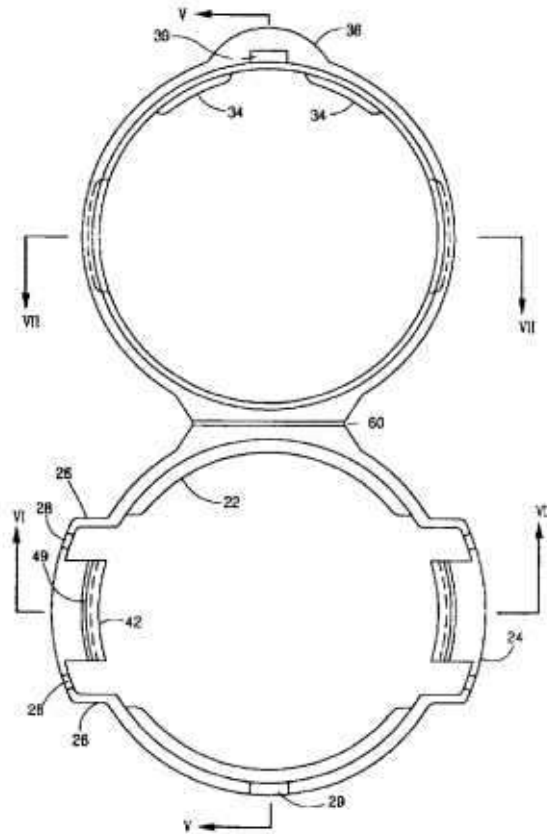
CCI - [B65D50/045](#) ; [B65D55/16](#)

CI - B65D50/045 (EP)  
 - B65D55/16 (EP)

PA - POLY SEAL CORP [US]

TI - **Child resistant** closure

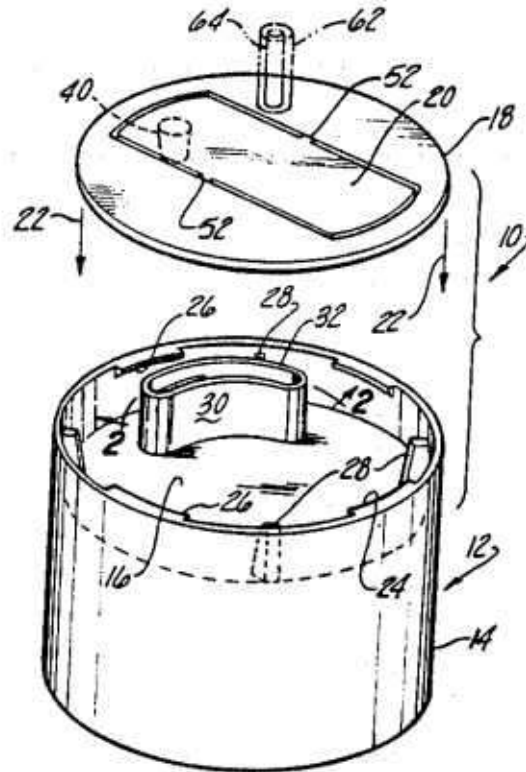
AB - A **child resistant** closure including a container and a **cap**. The container includes a body portion defining a chamber, and a hollow neck extending from the body portion. The **cap** is formed to fit around the neck and includes a base portion and a **lid** portion connected to the base portion with a **hinge**. At least one first engagement portion extends from a lever portion attached to the base portion, and is positioned to engage at least one second engagement portion that is integrally formed in the **lid** portion. The engagement portions are located off set from a location diametrically opposite the **hinge**. The closure is in a locked position when the first



engagement portion engages the second engagement portion. The closure is moved to an unlocked position when the lever portion is pushed inwardly to disengage the first engagement portion from the second engagement portion.

48/113 © EPODOC / EPO

- PN - [US4585151](#) A 19860429  
 PR - US19840668506 19841105  
 AP - [US19840668506](#) 19841105  
 DT - \*; Rep  
 CT - || STSE (A)  
[US2970724](#) A 00000000 [ ];  
[US3104039](#) A 00000000 [ ];  
[US3214069](#) A 00000000 [ ];  
[US4299339](#) A 00000000 [ ]
- CCI - [B65D50/045](#)  
 CI - B65D50/045 (EP)  
 PA - SUNBEAM PLASTICS CORP [US]  
 TI - **Child resistant** dispenser  
 AB - A two piece safety or **child resistant** closure for a container in which one piece is a cylindrical **cap** which is attached to the container by threads or by a flange to snap onto the container. The **cap** has a dispensing orifice which may be located on the end of a spout through which the contents of the container are dispensed. The second piece of the closure is a cover which is rotatably connected to the **cap**. When the cover is rotated to its closed position, the dispensing orifice is covered and sealed and the cover is locked against rotation. A rocker arm occupying a portion of the cover is connected to the cover by a torsion **hinge** and contains the locking mechanism. In order to put the closure into its dispensing position, the rocker arm must be depressed at the same time that the cover is rotated. Rotation of the cover to



the dispensing position uncovers the dispensing orifice. When the cover is rotated back to its closed or sealed position, the rocker arm drops back into its original position engaging the lock.

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PN - [US2004169045](#) A1 20040902

PR - US20030634156  
20030804; US20020421818P  
20021028

AP - [US20030634156](#) 20030804

DT - \*\*

CT - // R141 (A1)  
[US2003066839](#) A1 00000000 [ ];  
[US6571981](#) B2 00000000 [ ];  
[US4754896](#) A 00000000 [ ];  
[US4756440](#) A 00000000 [ ];  
[US5538156](#) A 00000000 [ ];  
[US5667094](#) A 00000000 [ ];  
[US3841528](#) A 00000000 [ ];  
[US5363983](#) A 00000000 [ ];  
[US2002179614](#) A1 00000000 [ ]

CCI - [A47G19/2272](#) ; [B65D43/162](#)

CCA - [B65D2543/00046](#)

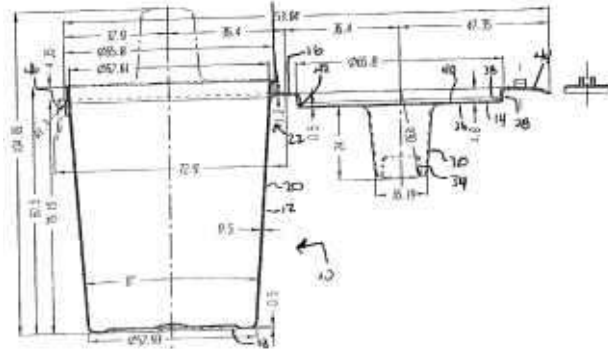
CI - A47G19/2272 (EP)

- B65D43/162 (EP)

CA - B65D2543/00046 (EP)

TI - Application and assembly suited for use as a disposable leak **proof** child drinking cup

AB - A disposable container assembly suited for use as an **child's** drinking cup with a passive closure system, the assembly comprises a container portion, a **lid** portion, and a **hinge**, which joins the container portion and the **lid** portion; the **hinge** is joined to a location on a sidewall of the container portion and is also joined to the **lid** portion; the **lid** portion is provided with a top surface, from which depends a skirt that extends around the perimeter of the top surface, the top surface is also provided with a drinking spout, which extends

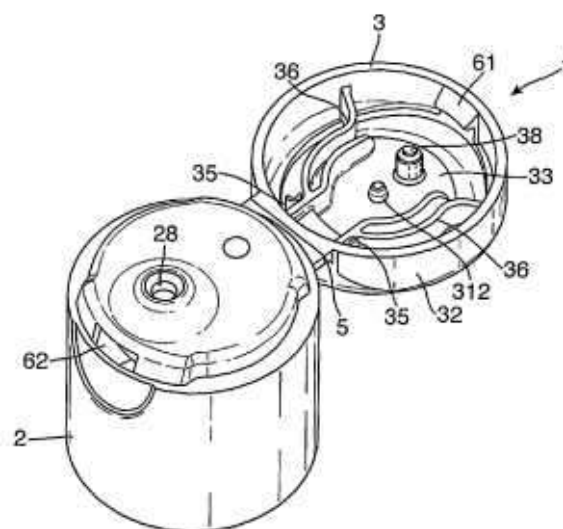


upward from the top surface; the drinking spout is provided at its upper end with at least one opening; the passive closure system consists of the opening in the lid that is sufficiently sized so that, when a liquid beverage is unintentionally positioned at the opening, the surface tension of the liquid beverage is sufficient so that the liquid beverage does not flow through the opening under normal conditions but when a person intentionally desires to drink from the container liquid beverage flows through the opening.

50/113 © EPODOC / EPO

PN - [US2008237236](#) A1 20081002  
 PR - WO2005EP53085  
 20050629; EP20040253917 20040630  
 AP - [US20050630365](#) 20050629  
 DT - \*\*  
 CT - || R141 (A1)

[US6112921](#) A 00000000 [ ];  
[US7861873](#) B1 00000000 [ ];  
[US4310105](#) A 00000000 [ ];  
[US4637519](#) A 00000000 [ ];  
[US6683038](#) B2 00000000 [ ];  
[US2006011573](#) A1 00000000 [ ];  
[US3425578](#) A 00000000 [ ];  
[US4569464](#) A 00000000 [ ];  
[US5603422](#) A 00000000 [ ];  
[US2004026420](#) A1 00000000 [ ];  
[US6685046](#) B2 00000000 [ ];  
[US6688501](#) B2 00000000 [ ];  
[US1798151](#) A 00000000 [ ];  
[US3871545](#) A 00000000 [ ];  
[US6036036](#) A 00000000 [ ];  
[US6866164](#) B2 00000000 [ ];  
[US2006043052](#) A1 00000000 [ ];  
[US5004126](#) A 00000000 [ ];  
[US6727215](#) B2 00000000 [ ];  
[US6880729](#) B2 00000000 [ ];  
[US2006077062](#) A1 00000000 [ ];  
[US7204383](#) B2 00000000 [ ];  
[US3810556](#) A 00000000 [ ];  
[US4091949](#) A 00000000 [ ];  
[US3820683](#) A 00000000 [ ];



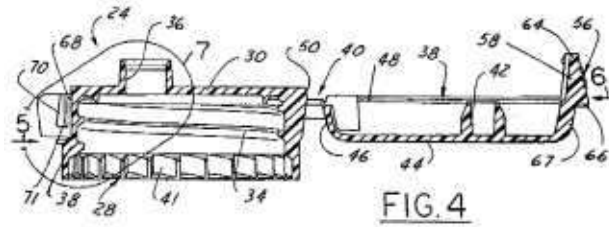
[US4838441](#) A 00000000 [ ];  
[US5427260](#) A 00000000 [ ];  
[US2005133475](#) A1 00000000 [ ];  
[US2006124646](#) A1 00000000 [ ];  
[US3455479](#) A 00000000 [ ];  
[US3892351](#) A 00000000 [ ];  
[US4531649](#) A 00000000 [ ];  
[US4941592](#) A 00000000 [ ];  
[US4942970](#) A 00000000 [ ];  
[US5332113](#) A 00000000 [ ];  
[US2004143505](#) A1 00000000 [ ];  
[US2009173007](#) A1 00000000 [ ];  
[US5445824](#) A 00000000 [ ];  
[US6095375](#) A 00000000 [ ];  
[US6269986](#) B1 00000000 [ ];  
[US2008190880](#) A1 00000000 [ ];  
[US3603470](#) A 00000000 [ ];  
[US4774480](#) A 00000000 [ ];  
[US2002125249](#) A1 00000000 [ ];  
[US2005205607](#) A1 00000000 [ ];  
[US2858054](#) A 00000000 [ ];  
[US3348718](#) A 00000000 [ ];  
[US4697719](#) A 00000000 [ ];  
[US5819965](#) A 00000000 [ ];  
[US7121419](#) B2 00000000 [ ];  
[US7125828](#) B2 00000000 [ ];  
[US3412890](#) A 00000000 [ ];  
[US5683016](#) A 00000000 [ ];  
[US6484879](#) B2 00000000 [ ];  
[US7296711](#) B2 00000000 [ ];  
[US2008277613](#) A1 00000000 [ ];  
[US4303171](#) A 00000000 [ ];  
[US4790442](#) A 00000000 [ ];  
[US5588545](#) A 00000000 [ ]

- CCI - [B65D47/0804](#) ; [B65D50/046](#)
- CCA - [B65D2251/105](#)
- CI - B65D47/0804 (EP)  
 - B65D50/046 (EP)
- CA - B65D2251/105 (EP)
- TI - Dispensing Closure
- AB - A **child resistant** dispensing closure 1 having a smooth external surface. The closure 1 comprises a body 2 and a **lid** 3 , connected together by a **hinge** 5 . The **lid** 3 is held closed against the body 2 by a catch 6 . The closure 1 has a resilient ring 4 which in its deformed configuration co-operates with the catch 6 to unlock it and

provides a lifting region 65 , by which a user may lift the lid 3 of the closure 1.

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- PN - [US2005023285](#) A1 20050203
- PNFP - US7404495 B2 20080729
- PR - US20030628521 20030728
- AP - [US20030628521](#) 20030728
- DT - \*\*
- CT - || R141 (A1)  
[US4244495](#) A 19810113 [ ]  
 (LORSCHIED WILLY, et al);  
[US4424910](#) A 19840110 [ ] (HEINOL  
 ALOIS R [US]);  
[US4638916](#) A 19870127 [ ] (BECK  
 JAMES M [US], et al);  
[US4892208](#) A 19900109 [ ] (SLEDGE  
 LARRY C [US]);  
[US5083671](#) A 19920128 [ ] (HAYES  
 THOMAS H [US]);  
[US4429800](#) A 19840207 [ ]  
 (GREENSPAN DONALD J [US]);  
[US5489035](#) A 19960206 [ ] (FUCHS  
 TIMOTHY J [US]);  
[US5718347](#) A 19980217 [ ] (WALKER  
 CHARLES B [US], et al);  
[US5423442](#) A 19950613 [ ]  
 (NOZAWA TAKAMITSU [JP], et al);  
[US2007125741](#) A1 20070607 [ ]  
 (KEUNG WING-KWONG [US]);  
[US5332131](#) A 19940726 [ ] (PEHR  
 HAROLD T [US]);  
[US4852770](#) A 19890801 [ ] (SLEDGE  
 LARRY C [US], et al);  
[US5137260](#) A 19920811 [ ] (PEHR  
 HAROLD T [US]);  
[US4170315](#) A 19791009 [ ] (DUBACH  
 WERNER F [CH], et al);  
[US4353483](#) A 19821012 [ ] (PEHR  
 HAROLD T);  
[US5356017](#) A 19941018 [ ] (ROHR  
 ROBERT D [US], et al);  
[US5462183](#) A 19951031 [ ] (ROHR  
 ROBERT D [US], et al);  
[US3623622](#) A 19711130 [ ]  
 (SULLIVAN PETER);  
[US5979681](#) A 19991109 [ ] (VARLET  
 JEAN-LUC ANDREPATRICK [BE], et  
 al);  
[US4629081](#) A 19861216 [ ]



(MCLAREN KEVIN W [GB]);  
[US5579957](#) A 19961203 [ ] (GENTILE JAMES [US], et al)  
 - || STSE (B2)  
[US3623622](#) A 19711130 [ ]  
 (SULLIVAN PETER);  
[US4170315](#) A 19791009 [ ] (DUBACH WERNER F [CH], et al);  
[US4424910](#) A 19840110 [ ] (HEINOL ALOIS R [US]);  
[US4429800](#) A 19840207 [ ]  
 (GREENSPAN DONALD J [US]);  
[US4629081](#) A 19861216 [ ]  
 (MCLAREN KEVIN W [GB]);  
[US4852770](#) A 19890801 [ ] (SLEDGE LARRY C [US], et al);  
[US5423442](#) A 19950613 [ ]  
 (NOZAWA TAKAMITSU [JP], et al);  
[US5979681](#) A 19991109 [ ] (VARLET JEAN-LUC ANDREPATRICK [BE], et al);  
[US2007125741](#) A1 20070607 [ ]  
 (KEUNG WING-KWONG [US])

- CCI - [B65D47/0804](#) ; [B65D50/046](#)
- CCA - [B65D2251/1058](#)
- CI - B65D47/0804 (EP)  
 - B65D50/046 (EP)
- CA - B65D2251/1058 (EP)
- PA - (B2)  
 REXAM CLOSURE SYSTEMS INC [US]
- TI - (A1 B2)  
**Child-resistant** flip-top dispensing closure and package
- AB - (A1 B2)  
 A **child-resistant** dispensing closure includes a base having a deck with a dispensing opening and a peripheral skirt. A **lid** is integrally molded with the base and coupled by a **hinge** to a periphery of the base so as to be pivotable between closed and open positions. One of the base and the **lid** has a latch arm resiliently extending from its periphery diametrically opposite the **hinge**. The latch arm has a pair of oppositely extending tabs adjacent to a free end of the arm. The other of the base and the **lid**

has an axial passage for receiving the latch arm, and a pair of laterally spaced ledges in the passage for engagement by the tabs to lock the **lid** in the closed position. The latch arm is directly manually engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the **lid** can be pivoted to the open position.

**52/113** © EPODOC / EPO

- PN - [US4535903](#) A 19850820
- PR - US19840604663 19840427
- AP - [US19840604663](#) 19840427
- DT - \*; Rep
- CT - *// STSE (A)*  
[US4146146](#) A 00000000 [ ];  
[US4358022](#) A 00000000 [ ];  
[US4458819](#) A 00000000 [ ];  
[US4462501](#) A 00000000 [ ]
- CCI - [B65D50/069](#)
- CCA - [Y10S206/807](#)
- CI - B65D50/069 (EP)
- CA - Y10S206/807 (EP)
- PA - FRANCHI ROBERTO D
- TI - **Child proof** medicine vial
- AB - A **child proof** medicine vial is provided having a bead for mating in a recess in a flange in the **cap** whereby the **cap** is tightly secured to the vial. The **cap** is provided with a recess and complimentary slots and inner chamber whereby a panel may be slidable into and out of the **cap**. When the panel is fully inserted in the **cap**, there are no projections on the **cap** for facilitating removal of the **cap** from the vial. When fully retracted from the **cap**, the panel permits the user to raise the **cap** thus permitting access to the vial. When fully retracted, the panel may have indicia to the effect that the vial is nonchild **proof**. An integral **hinge** is provided between the **cap** and vial so that the **cap** may be flipped away from, yet attached to, the vial.

**53/113** © EPODOC / EPO

PN - [US2007144996](#) A1 20070628

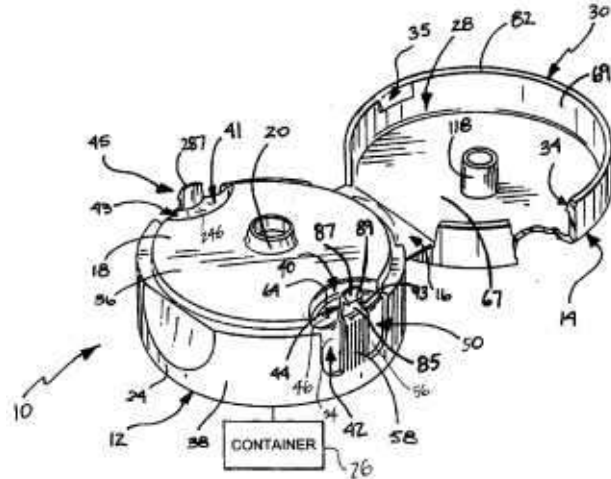
PNFP - US7798348 B2 20100921

PR - US20060564769  
20061129; US20050743006P  
20051202

AP - [US20060564769](#) 20061129

DT - \*: Rep

CT - || R141 (A1)  
[US5860543](#) A 19990119 [ ]  
(DECELLES GILLES [CA]);  
[US6170710](#) B1 20010109 [ ] (SUFFA  
UDO [DE]);  
[US2006016776](#) A1 20060126 [ ]  
(BARRE BERTRAND [FR], et al);  
[US6866164](#) B2 20050315 [ ]  
(BRANSON MARK K [US], et al);  
[US7510095](#) B2 20090331 [ ]  
(COMEAU RAYMOND [US], et al);  
[US3964634](#) A 19760622 [ ] (JASINSKI  
ANDREW S, et al);  
[US4752014](#) A 19880621 [ ] (HOUSE  
RANDALL F [US], et al);  
[US2005133475](#) A1 20050623 [ ]  
(GOTO TAKAYUKI [JP], et al);  
[US4940167](#) A 19900710 [ ]  
(FILLMORE WILLIAM E [US], et al);  
[US5573127](#) A 19961112 [ ]  
(TAKAHASHI NORIO [JP], et al);  
[US7611024](#) B2 20091103 [ ]  
(YAMANAKA YASUHIRO [JP], et al);  
[US5996859](#) A 19991207 [ ] (BECK  
JAMES M [US]);  
[US3850326](#) A 19741126 [ ] (RYLES L);  
[US4022352](#) A 19770510 [ ] (PEHR  
HAROLD T);  
[US4042105](#) A 19770816 [ ] (TAYLOR  
CLARENCE R);  
USRE29793E E 19781003 [ ];  
[US4244495](#) A 19810113 [ ]  
(LORSCHIED WILLY, et al);  
[US4444326](#) A 19840424 [ ] (MUSEL  
ROBERT J [US]);  
[US4629081](#) A 19861216 [ ]  
(MCLAREN KEVIN W [GB]);  
[US4718567](#) A 19880112 [ ] (LA  
VANGE DONALD [US]);  
[US4759455](#) A 19880726 [ ] (WILSON  
WOODROW S [US]);  
[US4782964](#) A 19881108 [ ] (POORE  
ALBERT C [GB], et al);  
[US4807768](#) A 19890228 [ ] (GACH



PETER P [US]);  
[US4821898](#) A 19890418 [ ] (SMALLEY  
 NED J [US]);  
[US4838441](#) A 19890613 [ ]  
 (CHERNACK MILTON P [US]);  
[US4892208](#) A 19900109 [ ] (SLEDGE  
 LARRY C [US]);  
[US5033634](#) A 19910723 [ ]  
 (BATCHELOR JAY A [US], et al);  
[US5092493](#) A 19920303 [ ] (PEHR  
 HAROLD T [US]);  
[US5137260](#) A 19920811 [ ] (PEHR  
 HAROLD T [US]);  
[US5180072](#) A 19930119 [ ]  
 (OEHLERT NEIL L [US]);  
[US5207657](#) A 19930504 [ ]  
 (GIBILISCO KENNETH J [US]);  
[US5765705](#) A 19980616 [ ] (DEUBEL  
 DONALD P [US]);  
[US2006249474](#) A1 20061109 [ ]  
 (SAWYER DUANE [US], et al)  
 - || STSE (B2)  
[US3964634](#) A 19760622 [ ] (JASINSKI  
 ANDREW S, et al);  
[US4752014](#) A 19880621 [ ] (HOUSE  
 RANDALL F [US], et al);  
[US4940167](#) A 19900710 [ ]  
 (FILLMORE WILLIAM E [US], et al);  
[US5573127](#) A 19961112 [ ]  
 (TAKAHASHI NORIO [JP], et al);  
[US5860543](#) A 19990119 [ ]  
 (DECELLES GILLES [CA]);  
[US5996859](#) A 19991207 [ ] (BECK  
 JAMES M [US]);  
[US6170710](#) B1 20010109 [ ] (SUFFA  
 UDO [DE]);  
[US6866164](#) B2 20050315 [ ]  
 (BRANSON MARK K [US], et al);  
[US7510095](#) B2 20090331 [ ]  
 (COMEAU RAYMOND [US], et al);  
[US7611024](#) B2 20091103 [ ]  
 (YAMANAKA YASUHIRO [JP], et al);  
[US2005133475](#) A1 20050623 [ ]  
 (GOTO TAKAYUKI [JP], et al);  
[US2006016776](#) A1 20060126 [ ]  
 (BARRE BERTRAND [FR], et al)

CCI - [B65D47/0809](#) ; [B65D50/046](#)  
 CI - B65D47/0809 (EP)  
 - B65D50/046 (EP)  
 PA - (A1 B2)  
 BERRY PLASTICS CORP [US]

TI - (A1)  
**CHILD-RESISTANT CLOSURE**

- (B2)  
**Child-resistant** closure

AB - (A1 B2)  
 A **child-resistant** closure is provided for connection to a container. The closure includes a base and a **cap**. The **cap** is secured to the base of the closure by use of a **hinge**.

54/113 © EPODOC / EPO

PN - [US5603421](#) A 19970218

PR - US19950513453 19950810

AP - [US19950513453](#) 19950810

DT - \*; Rep

CT - || STSE (A)  
[US3399796](#) A 00000000 [ ];  
[US3612323](#) A 00000000 [ ];  
[US3698584](#) A 00000000 [ ];  
[US3826395](#) A 00000000 [ ];  
[US3831797](#) A 00000000 [ ];  
[US3841514](#) A 00000000 [ ];  
[US3895730](#) A 00000000 [ ];  
[US4172533](#) A 00000000 [ ];  
[US4326649](#) A 00000000 [ ];  
[US4401225](#) A 00000000 [ ];  
[US4413742](#) A 00000000 [ ];  
[US4479585](#) A 00000000 [ ];  
[US4500006](#) A 00000000 [ ];  
[US4687112](#) A 00000000 [ ];  
[US4752013](#) A 00000000 [ ];  
[US4752014](#) A 00000000 [ ];  
[US5449077](#) A 00000000 [ ]

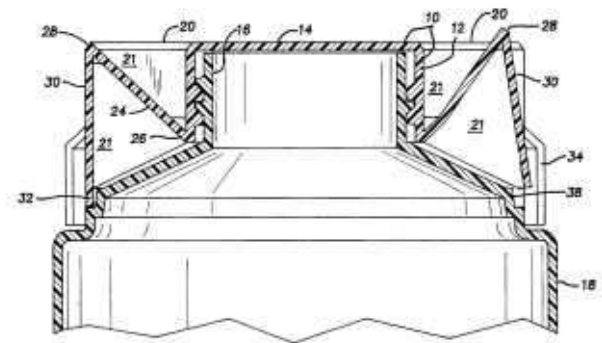
CCI - [B65D50/046](#)

CI - B65D50/046 (EP)

PA - WEATHERCHEM CORP [US]

TI - Two-finger **child resistant** closure

AB - A closure **cap** has winged fingerpieces which include latching members. The fingerpieces provide a **hinge-up** release movement of the latching members when the fingerpieces are squeezed radially inwardly. The invention provides a closure that is **child resistant** yet easy and convenient



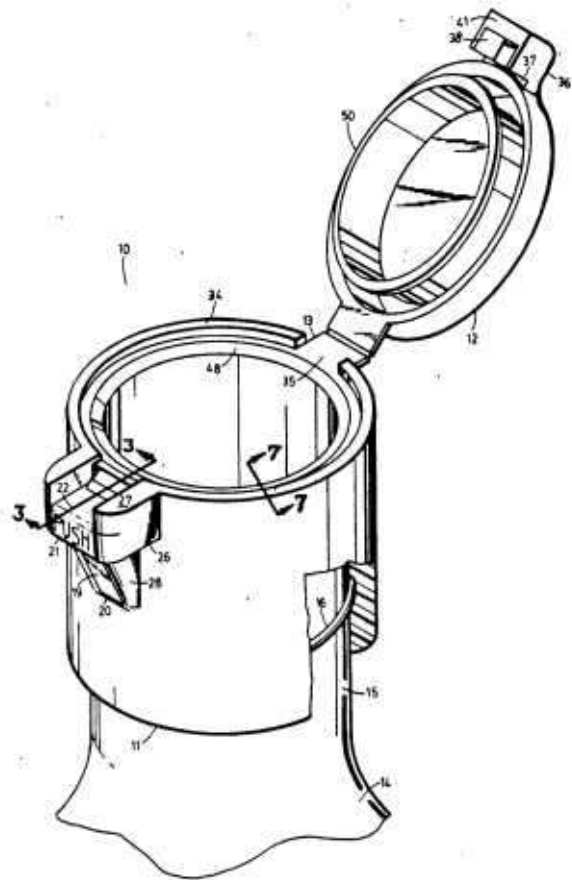
for an adult to operate.

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PN - [US5031784](#) A 19910716  
PR - US19900501530 19900330  
AP - [US19900501530](#) 19900330  
DT - \*: Rep  
CT - || STSE (A)

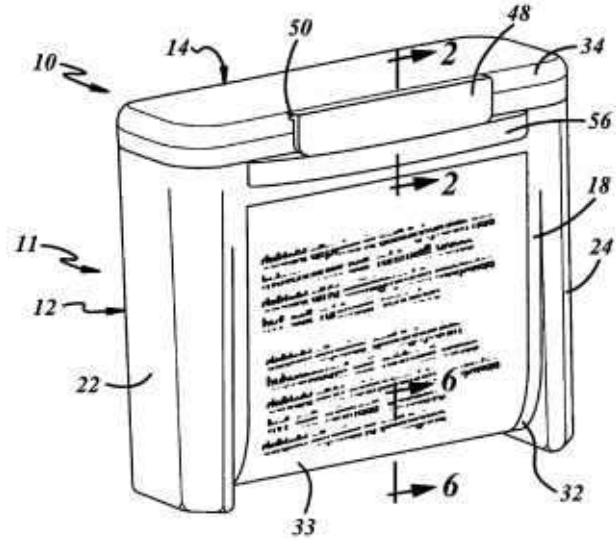
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[US3826394](#) A 00000000 [ ];  
[US4170315](#) A 00000000 [ ];  
[US4420089](#) A 00000000 [ ];  
[US4424910](#) A 00000000 [ ];  
[US4501378](#) A 00000000 [ ];  
[US4629081](#) A 00000000 [ ];  
[US4787526](#) A 00000000 [ ];  
[US4917261](#) A 00000000 [ ];  
[US4925041](#) A 00000000 [ ]

CCI - [B65D50/045](#)  
CI - B65D50/045 (EP)  
PA - WRIGHT FRANK S [US]  
TI - One-piece **child-resistant** closure  
AB - A one-piece closure includes a bottom member adapted to engage over the neck portion of a container and a top **lid** member that rotates between a closed position where it engages the mouth of the bottom member and an open position on an integral **hinge**. An elongate arm includes a distal end hook that engages a ledge on the top **lid** to hold the top **lid** open but, when depressed allows the top **lid** to be opened. The elongate arm can only be depressed by using the thumb or a finger and the top **lid** cannot be grasped except be the area hidden by the elongate hook.



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PN - [US2008011761](#) A1 20080117  
 PNFP - US7581656 B2 20090901  
 PR - US20060487665 20060717  
 AP - [US20060487665](#) 20060717  
 DT - \*: Rep  
 CT - || R141 (A1)  
[US5082114](#) A 19920121 [ ] (BUNIN LEONID [US]);  
[US5083671](#) A 19920128 [ ] (HAYES THOMAS H [US]);  
 USD389064S 19980113 [ ] (SETHI ASHOK, et al);  
 USD404531S 19990119 [ ] (BAKIC DIETER GOTTLIEB [IT], et al);  
[US4570818](#) A 19860218 [ ] (BORST RODNEY D [US], et al);  
[US5605245](#) A 19970225 [ ] (BEMIS RICHARD A [US], et al);  
[US2005023285](#) A1 20050203 [ ] (KEUNG WING-KWONG [US]);  
[US4809874](#) A 19890307 [ ] (PEHR HAROLD T [US]);  
[US4444326](#) A 19840424 [ ] (MUSEL ROBERT J [US]);  
 USD566330S 20080408 [ ] (ANGELETTA JOSEPH G [US]);  
[US4746008](#) A 19880524 [ ] (HEVERLY KAREN H [US], et al);  
[US4925041](#) A 19900515 [ ] (PEHR HAROLD T [US]);  
 USD425408S 20000523 [ ] (BAKIC DIETER [IT]);  
 USD474408S 20030513 [ ] (RENNIE PATRICK [US], et al);  
 USD379923S 19970617 [ ] (DE BASCHMAKOFF THIERRY [FR]);  
 USD543843S 20070605 [ ] (GEHRING JAY EDWARD [US], et al);  
[US5031784](#) A 19910716 [ ] (WRIGHT FRANK S [US]);  
 USD445338S 20010724 [ ] (HELLEU JACQUES [FR]);  
[US2006163103](#) A1 20060727 [ ] (ADLER DEBORAH B [US], et al);  
[US5137260](#) A 19920811 [ ] (PEHR HAROLD T [US]);  
[US6772902](#) B1 20040810 [ ] (WHITE COLIN [US]);  
[US7413082](#) B2 20080819 [ ] (ADLER DEBORAH B [US], et al);  
[US3148103](#) A 19640908 [ ]



(GALLAGHER JOHN P) ;  
[US3342379](#) A 19670919 [ ] (FOLEY JAMES P);  
[US5346069](#) A 19940913 [ ] (INTINI THOMAS D [CA]);  
[US7104416](#) B2 20060912 [ ] (GASCO MARY CARMEN [US], et al);  
[US4170315](#) A 19791009 [ ] (DUBACH WERNER F [CH], et al);  
[US5353946](#) A 19941011 [ ] (BEHREND GRACE A [US]);  
[US5356017](#) A 19941018 [ ] (ROHR ROBERT D [US], et al);  
[US4787526](#) A 19881129 [ ] (PEHR HAROLD T [US]);  
[US5368798](#) A 19941129 [ ] (MIZUKOSHI KOUBU [JP], et al);  
[US5577779](#) A 19961126 [ ] (DANGEL TIM M [US]);  
[US5270011](#) A 19931214 [ ] (ALTHERR RALPH [CH]);  
[US7311205](#) B2 20071225 [ ] (ADLER DEBORAH B [US], et al)  
 - || STSE (B2)  
[US3148103](#) A 19640908 [ ] (GALLAGHER JOHN P) ;  
[US3342379](#) A 19670919 [ ] (FOLEY JAMES P);  
[US4444326](#) A 19840424 [ ] (MUSEL ROBERT J [US]) ;  
[US4570818](#) A 19860218 [ ] (BORST RODNEY D [US], et al);  
[US4746008](#) A 19880524 [ ] (HEVERLY KAREN H [US], et al);  
[US4787526](#) A 19881129 [ ] (PEHR HAROLD T [US]);  
[US4925041](#) A 19900515 [ ] (PEHR HAROLD T [US]);  
[US5082114](#) A 19920121 [ ] (BUNIN LEONID [US]);  
[US5083671](#) A 19920128 [ ] (HAYES THOMAS H [US]);  
[US5137260](#) A 19920811 [ ] (PEHR HAROLD T [US]);  
[US5346069](#) A 19940913 [ ] (INTINI THOMAS D [CA]);  
[US5353946](#) A 19941011 [ ] (BEHREND GRACE A [US]);  
[US5356017](#) A 19941018 [ ] (ROHR ROBERT D [US], et al);  
[US5577779](#) A 19961126 [ ] (DANGEL TIM M [US]);

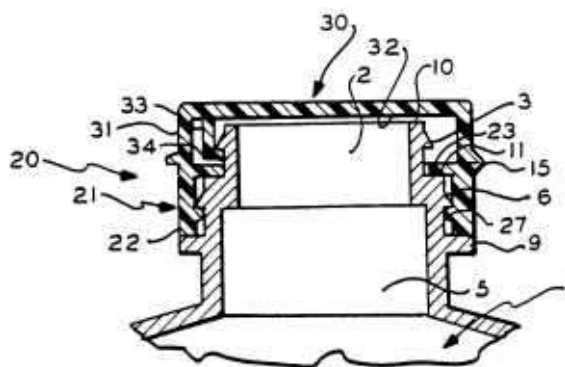
[US5605245](#) A 19970225 [ ] (BEMIS RICHARD A [US], et al);  
 USD379923S S 19970617 [ ] (DE BASCHMAKOFF THIERRY [FR]);  
 USD389064S S 19980113 [ ] (SETHI ASHOK, et al);  
 USD404531S S 19990119 [ ] (BAKIC DIETER GOTTLIEB [IT], et al);  
 USD425408S S 20000523 [ ] (BAKIC DIETER [IT]);  
 USD445338S S 20010724 [ ] (HELLEU JACQUES [FR]);  
 USD474408S S 20030513 [ ] (RENNIE PATRICK [US], et al);  
[US6772902](#) B1 20040810 [ ] (WHITE COLIN [US]);  
[US7104416](#) B2 20060912 [ ] (GASCO MARY CARMEN [US], et al);  
 USD543843S S 20070605 [ ] (GEHRING JAY EDWARD [US], et al);  
[US7311205](#) B2 20071225 [ ] (ADLER DEBORAH B [US], et al);  
 USD566330S S 20080408 [ ] (ANGELETTA JOSEPH G [US]);  
[US7413082](#) B2 20080819 [ ] (ADLER DEBORAH B [US], et al);  
[US2006163103](#) A1 20060727 [ ] (ADLER DEBORAH B [US], et al)

- |     |                                                                                                                                                                                                                                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCI | - <a href="#">B65D1/40</a> ; <a href="#">B65D25/205</a> ;<br><a href="#">B65D43/162</a>                                                                                                                                           |
| CCA | - <a href="#">B65D2215/04</a>                                                                                                                                                                                                     |
| CI  | - B65D1/40 (EP)<br>- B65D25/205 (EP)<br>- B65D43/162 (EP)                                                                                                                                                                         |
| CA  | - B65D2215/04 (EP)                                                                                                                                                                                                                |
| PA  | - (A1)<br>OWENS ILLINOIS PRESCRIPTION<br>- (B2)<br>REXAM PRESCRIPTION PRODUCTS<br>INC [US]                                                                                                                                        |
| TI  | - (A1 B2)<br>One-piece box-shaped container<br>with large label wrap surface                                                                                                                                                      |
| AB  | - (A1 B2)<br>A container includes a container<br>base and a <b>lid</b> interconnected by<br>a <b>hinge</b> and being of one-piece<br>integrally molded plastic<br>construction. The container base<br>is of generally rectangular |

outline having a back wall to which the **hinge** is connected, a front wall, opposite sidewalls and an open end. The front wall is connected to the back wall opposite the open end by a continuously curving end wall so that the front wall, the back wall and the continuously curving end wall form a continuous surface for application of a label to the front wall, the back wall and the continuously curving end wall. The sidewalls have flat coplanar edges opposite the open end to permit the container to be stood on end with the open end facing upwardly. The container preferably includes a **child-resistant** latch having a first latch element on the **lid** opposite the **hinge** and a second latch element on the front wall of the container adjacent to the open end and opposite the **hinge**. A continuous label may be applied to the front wall, the back wall and the continuously curving end wall of the container.

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- PN - [US5065876](#) A 19911119
- PR - US19890445416 19891204
- AP - [US19890445416](#) 19891204
- DT - \*\*
- CT - || STSE (A)  
[US3623622](#) A 00000000 [ ];  
[US3848780](#) A 00000000 [ ];  
[US3877598](#) A 00000000 [ ];  
[US4022352](#) A 00000000 [ ];  
[US4629081](#) A 00000000 [ ];  
[US4718567](#) A 00000000 [ ];  
[US4759455](#) A 00000000 [ ];  
[US4776475](#) A 00000000 [ ];  
[US4941580](#) A 00000000 [ ];  
[GB2158048](#) A 00000000 [ ]
- CCI - [B65D47/0838](#) ; [B65D50/061](#)
- CCA - [B65D2251/1016](#)
- CI - B65D47/0838 (EP)  
 - B65D50/061 (EP)



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CA | - B65D2251/1016 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PA | - JOYCE MOLDING CORP [US]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TI | - <b>Child-proof</b> container and flip-top closure for dry or for liquid contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AB | - A <b>child-proof</b> container and a closure for selectively opening and closing the container. The hollow container has at its upper end a dispensing opening. The closure has a body member and a flip-top <b>cap</b> member attached by a <b>hinge</b> to the body member for movement between open and closed positions. The body member is supported and locked on the container to permit rotational movement of the body member on the container. The container has an annular locking rib for releasable locking engagement with a locking bead on the <b>cap</b> member to permit unlocking of the <b>cap</b> member from the container only when the body member is rotated to an unlocking position with respect to the container, whereby the <b>cap</b> member may be moved from a closed to an open position to permit dispensing of contents from the container. The container and the closure are provided with corresponding indicia to indicate the precise rotational alignment of the container and the body member to permit unlocking of the <b>cap</b> member from the container. The container and closure are constructed in different embodiments for dry contents and for liquid contents. The container is made of essentially rigid materials. The closure is made of essentially semi-flexible materials. The container and closure are provided with a diverter which requires precise alignment of the closure with respect to the container in order to open the |

container. The container and closure are provided with a diverter which automatically locks the container upon closing of the closure with respect to the container.

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PN - [US5702013](#) A 19971230

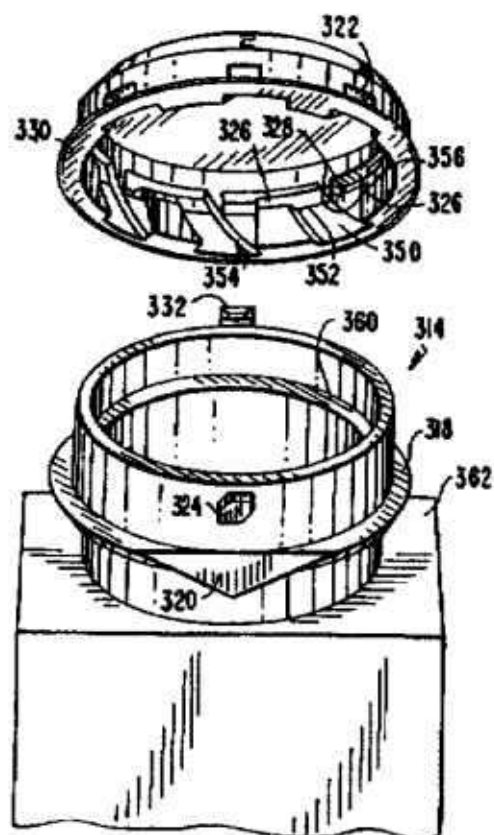
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19950406; US19940324892  
19941018; US19930016148F  
19931209; US19920850029 19920312

AP - [US19950417935](#) 19950406

DT - \*; Rep

CT - // STSE (A)

[US3587896](#) A 00000000 [ ];  
[US3627160](#) A 00000000 [ ];  
[US3656645](#) A 00000000 [ ];  
[US3765578](#) A 00000000 [ ];  
[US3766882](#) A 00000000 [ ];  
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[US5011032](#) A 00000000 [ ];  
[US5040691](#) A 00000000 [ ];  
[US5065876](#) A 00000000 [ ];  
[US5082129](#) A 00000000 [ ];  
[US5083671](#) A 00000000 [ ];  
[US5292017](#) A 00000000 [ ];



|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <a href="#">US5312010</a> A 00000000 [ ];<br><a href="#">FR2291108</a> A1 00000000 [ ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CCI | - <a href="#">A61J7/04</a> ; <a href="#">B05B11/0027</a> ;<br><a href="#">B65D21/0231</a> ; <a href="#">B65D47/0885</a> ;<br><a href="#">B65D47/185</a> ; <a href="#">B65D50/043</a> ;<br><a href="#">B65D50/061</a> ; <a href="#">B65D55/16</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CCA | - <a href="#">B05B11/0032</a> ; <a href="#">B65D2251/1083</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CI  | - A61J7/04 (EP)<br>- B05B11/0027 (EP)<br>- B65D21/0231 (EP)<br>- B65D47/0885 (EP)<br>- B65D47/185 (EP)<br>- B65D50/043 (EP)<br>- B65D50/061 (EP)<br>- B65D55/16 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CA  | - B05B11/0032 (EP)<br>- B65D2251/1083 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TI  | - Virtual <b>hinge</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| AB  | - A dynamic virtual <b>hinge</b> closure used for controlled, reliable, and measured dispensing of a variety of substances with extensive monitoring, <b>child</b> -resistance and senior-friendly features. A hook dynamically engages with a slot to create a virtual <b>hinge</b> each time the closure is opened. The hook dynamically disengages with the slot each time the closure is closed. Monitoring is accomplished by markers position on the outer surface of the container or <b>lid</b> . The closure may be opened in several ways, according to the users preference or ability. The monitoring may be for dispensing of food such as spices (i.e, pour, shake, spoon) , for dispensing of drugs (1st, 2nd, 3rd dose). The internal structure insures that the <b>lid</b> shifts into a locked, <b>child-resistant</b> position when closed and also that the <b>lid</b> is opened exactly once at each marker position. The <b>lid</b> is made of only one piece and requires no assembly. The closure is easily moldable, sealed on the top and side, and configured to accept a moisture/vapor seal |

and/or tamper-evident film.

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PN - [US5137260](#) A 19920811

PR - US19880277228  
19881129; US19890365518  
19890613; US19880160571 19880226

AP - [US19890365518](#) 19890613

DT - \*, Rep

CT - // STSE (A)  
USRE29793E E 00000000 [ ];  
[US351769](#) A 00000000 [ ];  
[US3623622](#) A 00000000 [ ];  
[US3790015](#) A 00000000 [ ];  
[US3826394](#) A 00000000 [ ];  
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[US3830393](#) A 00000000 [ ];  
[US3871662](#) A 00000000 [ ];  
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[US4127221](#) A 00000000 [ ];  
[US4170315](#) A 00000000 [ ];  
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[US4353483](#) A 00000000 [ ];  
[US4424910](#) A 00000000 [ ];  
[US4629081](#) A 00000000 [ ];  
[US4787526](#) A 00000000 [ ];  
[US4925041](#) A 00000000 [ ]

CCI - [B65D43/164](#) ; [B65D50/045](#) ;  
[E05C3/14](#) ; [E05D7/1077](#) ; [E05D9/005](#)

CCA - [B65D2251/1016](#) ; [B65D2251/1025](#) ;  
[E05B15/1635](#) ; [E05B65/0014](#) ;  
[E05Y2900/148](#) ; [E05Y2900/602](#)

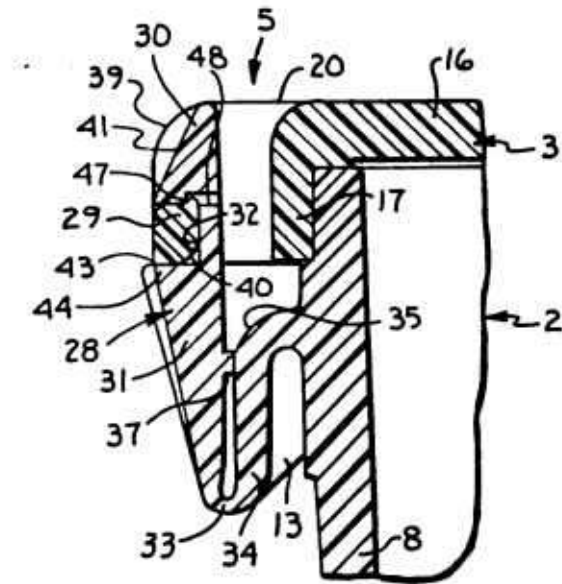
CI - B65D43/164 (EP)  
- B65D50/045 (EP)  
- E05C3/14 (EP)  
- E05D7/1077 (EP)  
- E05D9/005 (EP)

CA - B65D2251/1016 (EP)  
- B65D2251/1025 (EP)  
- E05B15/1635 (EP)  
- E05B65/0014 (EP)  
- E05Y2900/148 (EP)  
- E05Y2900/602 (EP)

PA - PEHR HAROLD T [US]

TI - **Child resistant** container with  
flush latched closure

AB - A **child resistant** container with a  
flush latched closure includes a



container with a resilient latch tongue member hinged thereto, the tongue including upper and lower pawls forming a latch recess therebetween. A closure or **cap** is hinged to the container and includes a latch bar sized and shaped to be flushly received within the latch recess to prevent gripping access to the latch bar. The **cap hinge** is of such a configuration that the **cap** cannot be separated from the container body with the **cap** latched closed. The latch is released by flexing the latch tongue toward the container which moves the upper pawl out of the way of the latch bar and moves the lower pawl beneath the latch bar to expose a gripping edge of the latch bar to allow a fingernail or the like to be used to open the **cap**. The latch tongue is positionable in such a manner as to avoid use of the latch to close the container, and the **cap** and container body are cooperatively sized to seal the container without the **cap** being latched thereto.

PN - [US4385706](#) A 19830531

PR - US19820336906 19820104

AP - [US19820336906](#) 19820104

DT - \*; Rep

CT - *// STSE (A)*  
[US3469725](#) A 00000000 [ ];  
[US3584760](#) A 00000000 [ ];  
[US3612322](#) A 00000000 [ ];  
[US3667637](#) A 00000000 [ ];  
[US3848780](#) A 00000000 [ ];  
[US3863797](#) A 00000000 [ ];  
[US3966082](#) A 00000000 [ ]

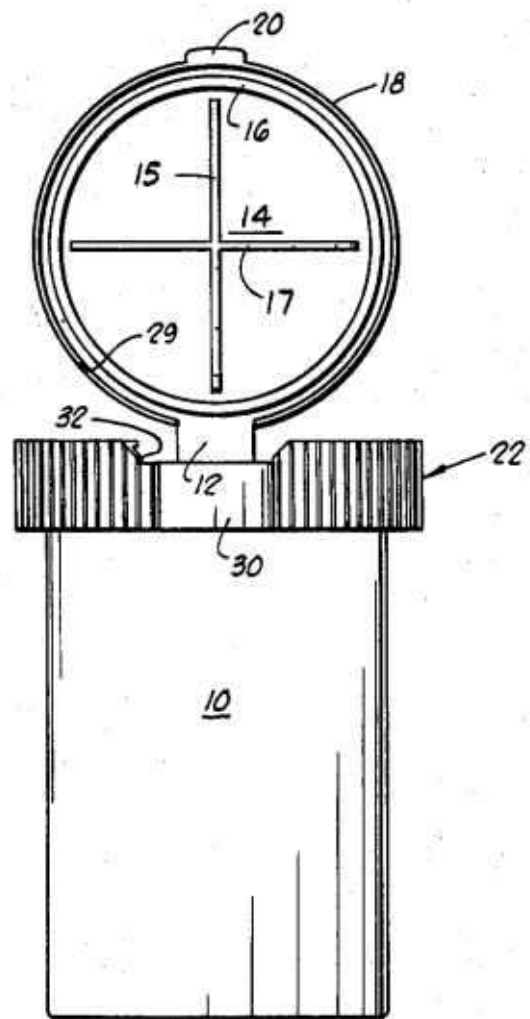
CCI - [B65D50/06](#)

CI - B65D50/06 (EP)

PA - CARLISLE CORP

TI - **Child resistant** container and closure

AB - A container and closure assembly which is **resistant** to opening by a **child**, and which includes a container having a cylindrical neck portion having an annular safety ring key or key way therearound. A safety ring is rotatably mounted on the neck portion and is retained against axial movement thereon by the key or key way. The safety ring defines an access tab relief, and also an access tab safety recess adjacent the access tab relief. A closure **cap** which is dimensioned to fit over and close the opening at the upper end of the neck portion is hinged to the neck portion for pivotation between an open and closed position. The closure **cap** carries an access tab at a location spaced around the **cap** from the **hinge** by which the **cap** is connected to the neck portion.



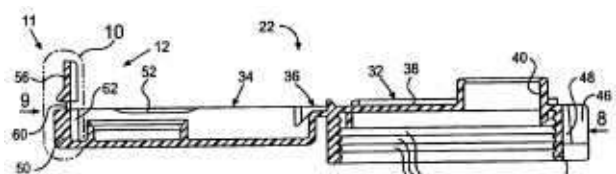
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PN - [US2007125741](#) A1 20070607

PNFP - US7721907 B2 20100525

PR - US20050285597 20051122

AP - [US20050285597](#) 20051122



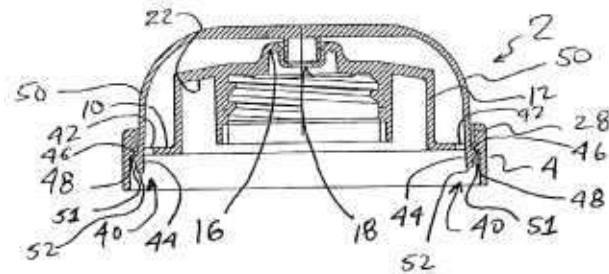
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DT  | - **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CT  | -    R141 (A1)<br><u>US4005800</u> A 19770201 [ ]<br>(SCHURMAN PETER T);<br><u>US2005023285</u> A1 20050203 [ ]<br>(KEUNG WING-KWONG [US]);<br><u>US5875907</u> A 19990302 [ ] (LAY<br>DIETER F [US]);<br><u>US6220637</u> B1 20010424 [ ] (KIERL<br>WILLIAM G [US]);<br><u>US4022352</u> A 19770510 [ ] (PEHR<br>HAROLD T);<br><u>US4154353</u> A 19790515 [ ] (HOO<br>WILLIAM K C [US]);<br><u>US4925041</u> A 19900515 [ ] (PEHR<br>HAROLD T [US]);<br><u>US5031784</u> A 19910716 [ ] (WRIGHT<br>FRANK S [US]);<br><u>US5137260</u> A 19920811 [ ] (PEHR<br>HAROLD T [US]);<br><u>US6269986</u> B1 20010807 [ ] (GROSS<br>RICHARD A [US]);<br><u>US6772902</u> B1 20040810 [ ] (WHITE<br>COLIN [US]);<br><u>US2006186077</u> A1 20060824 [ ]<br>(ROBINSON PHILIP J [US]);<br><u>US3902628</u> A 19750902 [ ]<br>(SCHURMAN PETER T);<br><u>US4170315</u> A 19791009 [ ] (DUBACH<br>WERNER F [CH], et al);<br><u>US4787526</u> A 19881129 [ ] (PEHR<br>HAROLD T [US]);<br><u>US6484895</u> B2 20021126 [ ]<br>(MONTGOMERY GARY V [US], et al);<br><u>US5579957</u> A 19961203 [ ] (GENTILE<br>JAMES [US], et al);<br><u>US5853093</u> A 19981229 [ ] (NEIGER<br>ELIEZER [US])<br>-    STSE (B2)<br><u>US2006186077</u> A1 20060824 [ ]<br>(ROBINSON PHILIP J [US]) |
| CCI | - <u>B65D47/0804</u> ; <u>B65D50/046</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CCA | - <u>B65D2215/02</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CI  | - B65D47/0804 (EP)<br>- B65D50/046 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CA  | - B65D2215/02 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PA  | - (A1)<br>OWENS ILLINOIS CLOSURE INC<br>- (B2)<br>REXAM CLOSURE SYSTEMS INC [US]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

- TI - (A1 B2)  
**Child-resistant** flip-top dispensing closure and package
- AB - (A1)  
A **child-resistant** closure includes a base and a **lid** is molded integrally with the base. The **lid** is coupled by a **hinge** to the base to be pivotable between a closed position and an open position. One of the base and the **lid** has a latch arm resiliently extending from a periphery opposite the **hinge**. The latch arm has a pair of oppositely extending tabs adjacent to a free end of the latch arm. The other of the base and the **lid** has an external recess for receiving the latch arm and a pair of laterally spaced ledges in the recess for engagement by the tabs to lock the **lid** in the closed position. The latch arm in the recess is directly manually engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the **lid** can be pivoted toward the open position. The tabs on the latch arm and the ledges in the recess are recessed radially inwardly from the outer surface of the latch arm in the closed position of the **lid** with the tabs engaged beneath the ledges. In this way, the latch arm can be pushed radially inwardly to release the **lid** without the user's fingers touching the ledges in the recess.
- (B2)  
A **child-resistant** closure includes a base, and a **lid** integrally molded and coupled to the base by a **hinge**. The **lid** has a latch arm resiliently extending from a periphery opposite the **hinge** and having oppositely extending tabs adjacent to a free end of the latch arm. The base has an

external recess for receiving the latch arm and spaced ledges in the recess for engagement by the tabs to lock the **lid** in a closed position. The latch arm is engageable by a user to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so the **lid** can be pivoted toward an open position. The tabs and the ledges are recessed radially inwardly from the outer surface of the latch arm in the closed position of the **lid** with the tabs engaged beneath the ledges.

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- PN - [US2004074919](#) A1 20040422
- PNFP - US6854619 B2 20050215
- PR - US20020274663 20021018
- AP - [US20020274663](#) 20021018
- DT - \*; Rep
- CT - || R141 (A1)  
[US4244495](#) A 19810113 [ ]  
 (LORSCHIED WILLY, et al);  
[US4718567](#) A 19880112 [ ] (LA  
 VANGE DONALD [US]);  
[US4892208](#) A 19900109 [ ] (SLEDGE  
 LARRY C [US]);  
[US4984716](#) A 19910115 [ ] (BECK  
 JAMES M [US]);  
[US5484070](#) A 19960116 [ ]  
 (GRAHAM D SCOTT [US]);  
[US4809874](#) A 19890307 [ ] (PEHR  
 HAROLD T [US]);  
[US5092493](#) A 19920303 [ ] (PEHR  
 HAROLD T [US]);  
[US4739906](#) A 19880426 [ ]  
 (LOTURCO RAYMOND A [US]);  
[US4821898](#) A 19890418 [ ] (SMALLEY  
 NED J [US]);  
[US6371316](#) B1 20020416 [ ] (HERR  
 JAMES E [US], et al);  
[US4022352](#) A 19770510 [ ] (PEHR  
 HAROLD T);  
[US4838441](#) A 19890613 [ ]  
 (CHERNACK MILTON P [US]);  
[US5765705](#) A 19980616 [ ] (DEUBEL  
 DONALD P [US]);  
[US5328058](#) A 19940712 [ ]



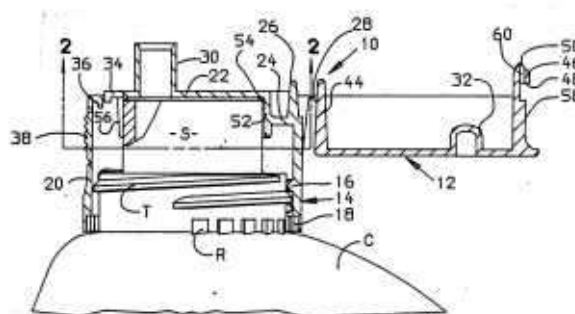
(LEONCAVALLO RICHARD A [US], et al);  
[US4533058](#) A 19850806 [ ] (UHLIG ALBERT P [US]);  
[US4852770](#) A 19890801 [ ] (SLEDGE LARRY C [US], et al);  
[US5141138](#) A 19920825 [ ] (ODET PHILIPPE [FR], et al);  
[US6095354](#) A 20000801 [ ] (HERR JAMES E [US], et al);  
[US3603470](#) A 19710907 [ ] (ARMOUR DONALD F);  
[US5246145](#) A 19930921 [ ] (LEONCAVALLO RICHARD A [US], et al);  
[US4170315](#) A 19791009 [ ] (DUBACH WERNER F [CH], et al);  
[US4127221](#) A 19781128 [ ] (VERE MARY A);  
[US4787526](#) A 19881129 [ ] (PEHR HAROLD T [US]);  
[US4629081](#) A 19861216 [ ] (MCLAREN KEVIN W [GB]);  
[US4790442](#) A 19881213 [ ] (GACH PETER P [US]);  
[US5579957](#) A 19961203 [ ] (GENTILE JAMES [US], et al)  
- || STSE (B2)  
[US4127221](#) A 19781128 [ ] (VERE MARY A);  
[US4984716](#) A 19910115 [ ] (BECK JAMES M [US])

- |     |                                                                                                                                                                                                                                                                                                                                                        |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCI | - <a href="#">B65D47/0804</a> ; <a href="#">B65D50/046</a>                                                                                                                                                                                                                                                                                             |
| CI  | - B65D47/0804 (EP)<br>- B65D50/046 (EP)                                                                                                                                                                                                                                                                                                                |
| PA  | - (B2)<br>SUMMIT PACKAGING SYST [US]                                                                                                                                                                                                                                                                                                                   |
| TI  | - (A1 B2)<br>Flip-top closure with <b>child resistant</b> packaging system                                                                                                                                                                                                                                                                             |
| AB  | - (A1 B2)<br>A flip-top closure, for dispensing a product from a container, comprising a base member having a neck and a dispensing orifice. A <b>cap</b> is formed integral with the base member and connected thereto by a <b>hinge</b> which facilitates pivoting motion of the <b>cap</b> relative to the base member. The <b>cap</b> is pivotable |

from an open position to a closed position, and vice versa. The **cap** carries a sealing member which facilitates sealing of the dispensing orifice when the **cap** is in the closed position. The flip-top closure includes a **child resistant** locking system, which resists opening of the flip-top container by a **child**, comprising at least one hook member carried by one of the base member and the **cap** and at least one latching surface, carried by the other of the base member and the **cap**. The hook member is located to engage with the latching surface and retain the **cap** in a locked position and resist opening of the flip-top container by a **child**.

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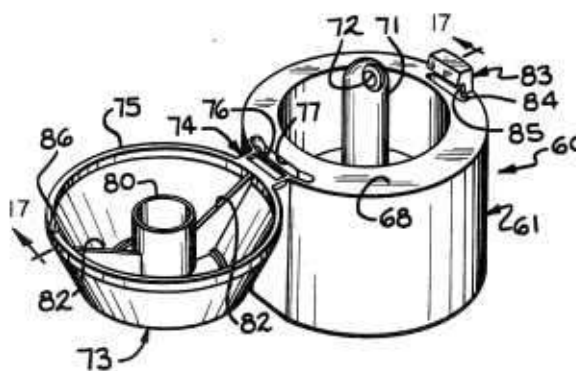
- PN - [US4892208](#) A 19900109
- PR - US19880245639 19880919
- AP - [US19880245639](#) 19880919
- DT - \*, Rep
- CT - || STSE (A)  
[US4257561](#) A 00000000 [ ];  
[US4280631](#) A 00000000 [ ];  
[US4358031](#) A 00000000 [ ];  
[US4807768](#) A 00000000 [ ]
- CCI - [B65D47/0819](#) ; [B65D50/045](#)
- CCA - [B65D2251/1016](#) ; [B65D2255/20](#)
- CI - B65D47/0819 (EP)  
 - B65D50/045 (EP)
- CA - B65D2251/1016 (EP)  
 - B65D2255/20 (EP)
- PA - SPECIALTY PACKAGING LICENSING [US]
- TI - **Child-resistant** closure assembly
- AB - Closure assembly includes a **lid** carrier or base having a hinged **lid**. The top wall of the **lid** carrier has a sealing means surrounded by a downward alignment sleeve. The assembly is especially useful with high-speed automatic container-



capping machinery, because the sleeve cooperates with the cylindrical upright neck or spout on a container to see that the closure assembly is not cocked prior to sealing and that the top of the spout makes square contact with the sealing means to assure a good seal. The sleeve is interrupted on the opposite side of the carrier from the **hinge** so that it does not interfere with action of a latch depending from the **lid**. The spout itself forms a stop for the latch so that it will not be overextended and break when it is pressed in unlatching.

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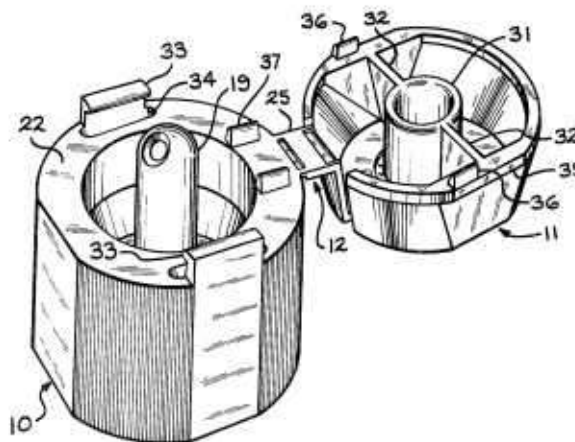
- PN - [US4334639](#) A 19820615
- PR - US19800143819  
19800508; US19790108642 19791231
- AP - [US19800143819](#) 19800508
- DT - \*; Rep
- CT - || STSE (A)  
[US3240405](#) A 00000000 [ ];  
[US3661248](#) A 00000000 [ ];  
[US3752371](#) A 00000000 [ ];  
[US3873006](#) A 00000000 [ ];  
[US4010875](#) A 00000000 [ ];  
[US4209100](#) A 00000000 [ ]
- CCI - [B65D47/0838](#) ; [B65D47/0842](#) ;  
[B65D50/045](#)
- CCA - [B65D2251/1016](#) ; [B65D2255/20](#)
- CI - B65D47/0838 (EP)  
B65D47/0842 (EP)  
B65D50/045 (EP)
- CA - B65D2251/1016 (EP)  
B65D2255/20 (EP)
- PA - SUNBEAM PLASTICS CORP
- TI - **Child-resistant** dispensing closure
- AB - A **child-resistant** dispensing closure fabricated from resilient material which has an inverted cup-shaped body, an axially protruding nozzle and a saucer-shaped **lid** for closing the nozzle. The **lid** is connected to the body



by a flexible **hinge** which is unitary with the body and the **lid** and which is located at one edge of the body. There are cooperating means for retaining the **lid** in closed position overlying the body and the nozzle, the catch means being located diametrically opposite the **hinge**. The **lid** has a maximum diameter no greater than the diameter of the top of the body. The catch means may be at least partially disengaged by moving the **lid** laterally relative to the body in a direction transverse to the diameter extending between the **hinge** and the catch means which also protrudes a portion of the **lid** radially beyond the top of the body. By grasping the protruding portion of the **lid**, the **lid** then may be swung angularly away from closing position.

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- PN - [US4310105](#) A 19820112
- PR - US19800139840 19800424
- AP - [US19800139840](#) 19800424
- DT - \*; Rep
- CT - || STSE (A)  
[US2971680](#) A 00000000 [ ];  
[US4010875](#) A 00000000 [ ];  
[US4127221](#) A 00000000 [ ];  
[US4236653](#) A 00000000 [ ]
- CCI - [B65D47/0838](#)
- CCA - [B65D2255/20](#)
- CI - B65D47/0838 (EP)
- CA - B65D2255/20 (EP)
- PA - SUNBEAM PLASTICS CORP
- TI - **Child-resistant** dispensing closure
- AB - A **child-resistant** dispensing closure consisting of a one-piece molding of resilient material that comprises an inverted cup-shaped **cap** having a central dispensing opening and a saucer shaped **lid** that is integrally



hinged to the **cap** at one edge thereof for movement to and from an inverted, closing position closely over-lying the **cap**. The **lid** has an element which closes the dispensing opening and engages in telescoping relationship therewith. The **cap** and **lid** have overlapping catch means for retaining the **lid** in closing position. In the closing position, no part of the **lid** extends beyond the margin of the **cap** so there is nothing which a small **child** can grasp in order to swing the **lid** to gain access to the content material. The **hinge** is double acting and provides not only for angular movement to and from the closing position but also for lateral movement of the **lid** relative to the **cap** against the resilience of the engaged element and opening for disengaging the catch means. In a preferred embodiment, the dispensing opening is in the upper end of a nozzle which is an integral part of the **cap** and the closing element is on the underside of the **lid**, so that it engages the upper end of the nozzle and closes the nozzle opening.

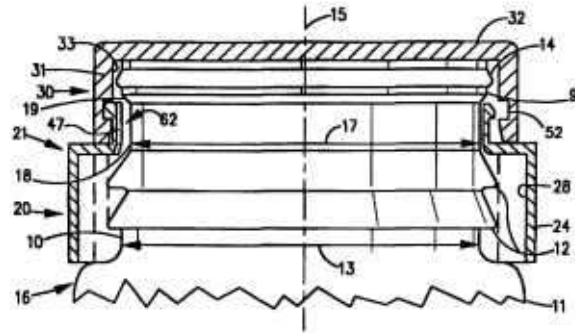
66/113 © EPODOC / EPO

PN - [WO9846491](#) A1 19981022  
 PR - US19970835826 19970416  
 AP - [WO1998US06597](#) 19980403  
 DT - \*; Rep  
 CT - */US/ ISR (A1)*  
       [US4752013](#) A 00000000 [X];  
       [US5213223](#) A 00000000 [Y];  
       [US4172533](#) A 00000000 [Y]  
 CCI - [B65D50/046](#)  
 CI - B65D50/046 (EP)  
 PA - WEATHERCHEM CORP [US]  
 TI - **CHILD-RESISTANT SCREW-ON CAP AND BOTTLE**  
 AB - A **child-resistant** bottle and screw-on **cap** combination that is relatively easy to open for

elderly persons with limited dexterity. The **cap** (10) has a construction that is particularly suited for use with extrusion blow-molded bottles. The **cap** (10) has a pair of diametrically opposed lock levers (21). Each lock lever (21) has a finger engageable portion (32) and a bottle contacting portion (28) and is attached to the outer skirt (14) of the **cap** by a **hinge** (26). The bottle contacting portion (28) of the lock lever (21) engages locking surfaces (39) on the bottle.

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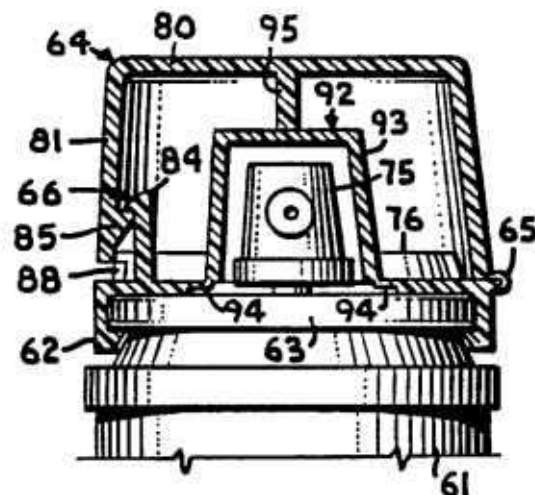
- PN - [WO9804469](#) A1 19980205
- PR - US19960689087 19960730
- AP - [WO1997US13334](#) 19970729
- DT - \*; Rep
- CT - /US/ ISR (A1)  
[US4759455](#) A 00000000 [X];  
[US4807768](#) A 00000000 [Y];  
[US5033634](#) A 00000000 [A];  
[US4629081](#) A 00000000 [A]
- CCI - [B65D50/045](#) ; [B65D55/16](#)
- CI - B65D50/045 (EP)  
 B65D55/16 (EP)
- PA - POLY SEAL CORP [US] ; DEUBEL  
 DONALD P [US]
- TI - **CHILD RESISTANT CLOSURE**
- AB - A **child resistant** closure including a container (16) and a **cap** (21). The container includes a body portion (11) defining a chamber, and a hollow neck (10) extending from the body portion. The **cap** is formed to fit around the neck and includes a base portion (20) and a **lid** portion (30) connected to the base portion with a **hinge** (60). At least one first engagement portion (42) extends from a lever portion (24) attached to the base portion, and is positioned to engage at least one second engagement portion (52) that is integrally formed in the **lid** portion. The engagement portions are located off set from a location diametrically opposite the **hinge**. The closure is in a locked position when the first engagement portion engages the second engagement portion. The closure is moved to an unlocked position when the lever portion



is pushed inwardly to disengage the first portion from the second portion.

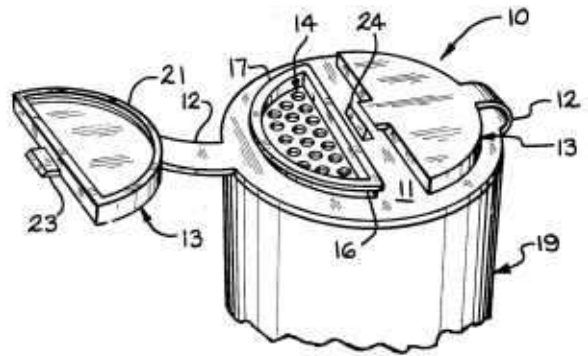
68/113 © EPODOC / EPO

- PN - [WO9212067](#) A1 19920723
- PR - US19900634476 19901227
- AP - [WO1991US09787](#) 19911227
- DT - \*\*
- CT - /US/ ISR (A1)  
[US3532249](#) A 00000000 [A];  
[US3828959](#) A 00000000 [A];  
[US3854622](#) A 00000000 [A];  
[US3870187](#) A 00000000 [A];  
[US4353483](#) A 00000000 [A];  
[FR2499028](#) A1 00000000 [A]
- CCI - [B65D50/067](#) ; [B65D83/40](#) ;  
[B65D83/757](#)
- CI - B65D50/067 (EP)  
B65D83/40 (EP)  
B65D83/757 (EP)
- PA - PEHR HAROLD T [US]
- TI - CAPTIVE KEY RELEASE CLOSURE  
STRUCTURE
- AB - The invention relates to a closure **cap** for an aerosol container. The problem associated with many existing aerosol closures is that they are not **child resistant** and loss of the closure once removed. A captive key release closure (64) includes a base ring (62) connected to a rim (63) of a container (61). Closure (64) is integrally hinged at (65) to the base ring (62). A latch (84) on the base ring (62), and a latch pawl (85) on inner surface (81) of the **cap** are aligned with one another. A key slot (88) is formed in the **cap** wall at a position opposite the **hinge** (65). The closure (64) is opened by insertion of a small keylike tool into the key slot (88) and twisted against the surfaces defining the key slot (88) to separate and thereby release the pawl (85) from the latch (84).



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- PN - [US4284200](#) A 19810818
- PR - US19790080512 19791001
- AP - [US19790080512](#) 19791001
- DT - \*; Rep
- CT - || STSE (A)  
[US3016168](#) A 00000000 [ ];  
[US3140019](#) A 00000000 [ ];  
[US3542235](#) A 00000000 [ ];  
[US3851805](#) A 00000000 [ ];  
[US4000839](#) A 00000000 [ ];  
[US4082201](#) A 00000000 [ ]
- CCI - [B65D47/0842](#)
- CCA - [B65D2251/105](#)
- CI - B65D47/0842 (EP)
- CA - B65D2251/105 (EP)
- PA - SUNBEAM PLASTICS CORP
- TI - **Child-resistant** dispensing closure
- AB - A one-piece **child-resistant** dispensing closure for a container which has an open end. The closure has a skirt which mates with the end of the container and a top which spans the space defined by the skirt. Preferably there are two dispensing openings through the top, each of which is surrounded by an upwardly extending rim. The closure also comprises a **lid** for each opening and a **hinge** for each **lid**. The hinges and lids are integral parts of the closure. The lids have similar rims which fit around the rims on the closure top when the lids are swung over to close the dispensing openings. In the closed position, ribs on the edges of the pairs of opposed rims snap over each other and ears on the inner sides of the lids are closely spaced from a fulcrum on the closure top. The engagement of the ribs holds the lids closed. Pry means, such as a coin or blade, may be inserted between the fulcrum and a **lid** ear to pry the



PN - [US4262802](#) A 19810421

PR - US19790063432 19790803

AP - [US19790063432](#) 19790803

DT - \*; Rep

CT - *|| STSE (A)*

[US3256892](#) A 00000000 [ ; ]

[US3419198](#) A 00000000 [ ; ]

[US4029202](#) A 00000000 [ ; ]

[US4047495](#) A 00000000 [ ; ]

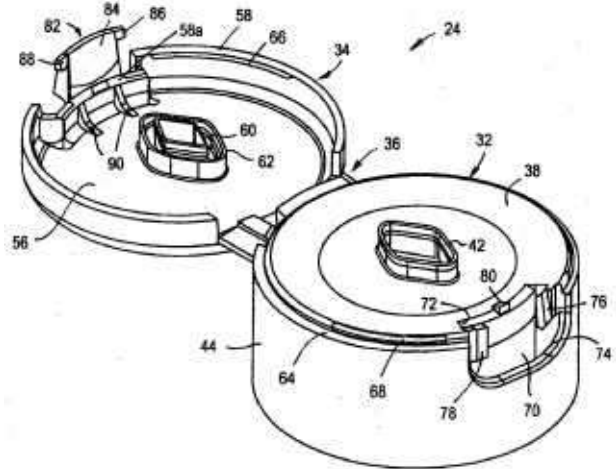
CCA - [B65D2251/1066](#)

CA - B65D2251/1066 (EP)

TI - Packaging and dispensing pill box

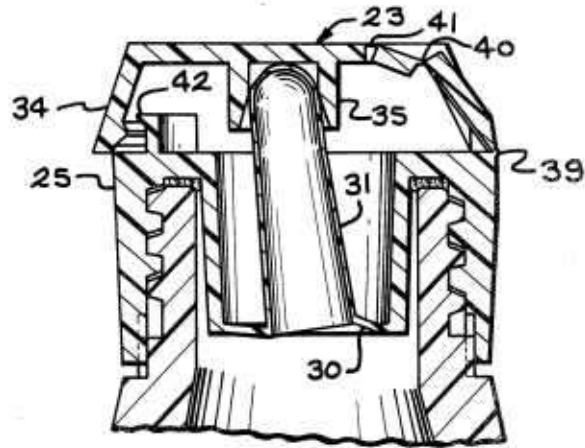
71/113 © EPODOC / EPO

PN - [US2006186077](#) A1 20060824  
 PNFP - US7735665 B2 20100615  
 PR - US20050062177 20050218  
 AP - [US20050062177](#) 20050218  
 DT - \*: Rep  
 CT - || R141 (A1)  
       [US6170683](#) B1 20010109 [ ]  
       (MONTGOMERY GARY V [US]) ;  
       [US4429800](#) A 19840207 [ ]  
       (GREENSPAN DONALD J [US]);  
       [US6405885](#) B1 20020618 [ ]  
       (ELLIOTT JOHN [US]);  
       [US6409034](#) B2 20020625 [ ]  
       (SCHORNER HORST [DE]);  
       [US7404495](#) B2 20080729 [ ] (KEUNG  
       WING-KWONG [US]) ;  
       [US5137260](#) A 19920811 [ ] (PEHR  
       HAROLD T [US]);  
       [US3902628](#) A 19750902 [ ]  
       (SCHURMAN PETER T);  
       [US4170315](#) A 19791009 [ ] (DUBACH  
       WERNER F [CH], et al);  
       [US6484895](#) B2 20021126 [ ]  
       (MONTGOMERY GARY V [US], et al);  
       [US5579957](#) A 19961203 [ ] (GENTILE  
       JAMES [US], et al);  
       [US6325252](#) B1 20011204 [ ]  
       (BROZELL LEONORA M [US], et al)  
 - || STSE (B2)  
       [US3902628](#) A 19750902 [ ]  
       (SCHURMAN PETER T);  
       [US4170315](#) A 19791009 [ ] (DUBACH  
       WERNER F [CH], et al);  
       [US4429800](#) A 19840207 [ ]  
       (GREENSPAN DONALD J [US]);  
       [US5137260](#) A 19920811 [ ] (PEHR  
       HAROLD T [US]);  
       [US5579957](#) A 19961203 [ ] (GENTILE  
       JAMES [US], et al);  
       [US6325252](#) B1 20011204 [ ]  
       (BROZELL LEONORA M [US], et al);  
       [US6409034](#) B2 20020625 [ ]  
       (SCHORNER HORST [DE]);  
       [US6484895](#) B2 20021126 [ ]  
       (MONTGOMERY GARY V [US], et al);  
       [US7404495](#) B2 20080729 [ ] (KEUNG  
       WING-KWONG [US])  
 CCI - [B65D47/0814](#) ; [B65D50/046](#)  
 CCA - [B65D2215/02](#)  
 CI - B65D47/0814 (EP)



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | - B65D50/046 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CA | - B65D2215/02 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PA | - (A1)<br>OWENS ILLINOIS CLOSURE INC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|    | - (B2)<br>REXAM CLOSURE SYSTEMS INC [US]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TI | - (A1 B2)<br><b>Child-resistant</b> flip-top dispensing closure, package and method of manufacture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AB | - (A1 B2)<br>A <b>child-resistant</b> dispensing closure includes a base having a deck with a dispensing opening, a peripheral skirt extending from the deck, and an inner wall extending from the deck for securing the closure to a container. An axial passage extends from the deck between the peripheral skirt and the inner wall, and opens radially outwardly through the peripheral skirt. A pair of spaced ledges are disposed in the axial passage. A <b>lid</b> is molded integrally with the base and is coupled by a <b>hinge</b> to the base so as to be pivotable between a closed position overlying the deck and an open position spaced from the deck. The <b>lid</b> has a latch arm that resiliently extends from a periphery of the <b>lid</b> . The latch arm has a pair of oppositely extending tabs for engagement with the ledges to lock the <b>lid</b> in the closed position. The latch arm is directly manually engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the <b>lid</b> can be pivoted toward the open position drawing the latch arm out of the axial passage. |

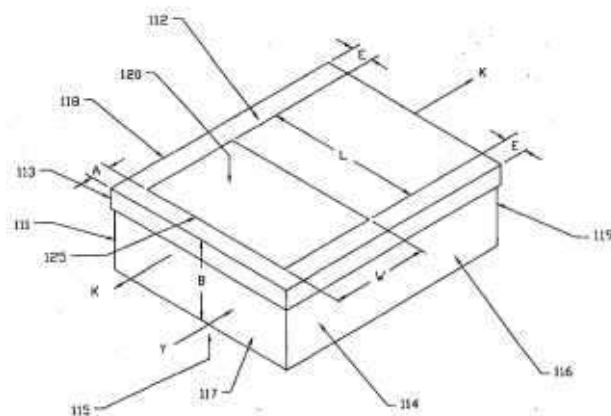
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 AP - [US19790061832](#) 19790730  
 DT - \*: Rep  
 CT - || STSE (A)  
       [FR1228265](#) A 19600829 [ ];  
       [IT600651](#) A 00000000 [ ];  
       [GB1360091](#) A 19740717 [ ] (METAL  
       BOX CO LTD);  
       [US1794987](#) A 19310303 [ ] (SEBOLT  
       FRANK B);  
       [US3059816](#) A 19621023 [ ] (DANIEL  
       GOLDSTEIN);  
       [US3240405](#) A 19660315 [ ] (ABBOTT  
       HORACE P);  
       [US3441161](#) A 19690429 [ ] (BAARN  
       PAUL S VAN);  
       [US3542235](#) A 19701124 [ ] (HIDDING  
       WALTER E);  
       [US3741447](#) A 19730626 [ ] (MILES G,  
       et al);  
       [US3752371](#) A 19730814 [ ] (SUSUKI  
       R, et al);  
       [US3853250](#) A 19741210 [ ] (ALPERN  
       M);  
       [US4010875](#) A 19770308 [ ] (BABIOL  
       PIERRE);  
       [US4158902](#) A 19790626 [ ]  
       (CHERNACK MILTON P [US], et al)  
 CCI - [B65D47/0838](#) ; [B65D50/045](#)  
 CCA - [B65D2251/1016](#) ; [B65D2255/20](#)  
 CI - B65D47/0838 (EP)  
       B65D50/045 (EP)  
 CA - B65D2251/1016 (EP)  
       B65D2255/20 (EP)  
 PA - SUNBEAM PLASTICS CORP  
 TI - **Child-resistant** dispensing closure  
 AB - A **child-resistant** dispensing  
       closure consisting of a one-piece  
       molding of resilient material  
       that comprises an inverted cup-  
       shaped **cap** having a central  
       dispensing opening and a saucer  
       shaped **lid** that is integrally  
       hinged to the **cap** at one edge  
       thereof for movement to and  
       from an inverted, closing  
       position closely overlying  
       the **cap**. The **lid** has an element



which closes the dispensing opening and engages in telescoping relationship therewith. The **cap** and **lid** have overlapping catch means for retaining the **lid** in closing position. The **hinge** is double acting and provides not only for angular movement to and from the closing position but also for lateral movement of the **lid** relative to the **cap** against the resilience of the engaged element and opening for disengaging the catch means. In a preferred embodiment, the dispensing opening is in the upper end of a nozzle which is an integral part of the **cap** and the closing element is on the underside of the **lid**, so that it engages the upper end of the nozzle and closes the nozzle opening.

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- PN - [US2005144708](#) A1 20050707
- PNFP - US8376174 B2 20130219
- PR - US20040051695  
20041224; US20040533991P  
20040103; US20040553316P  
20040315
- AP - [US20040051695](#) 20041224
- DT - \*: Rep
- CT - || R141 (A1)  
[US5706972](#) A 00000000 [ ];  
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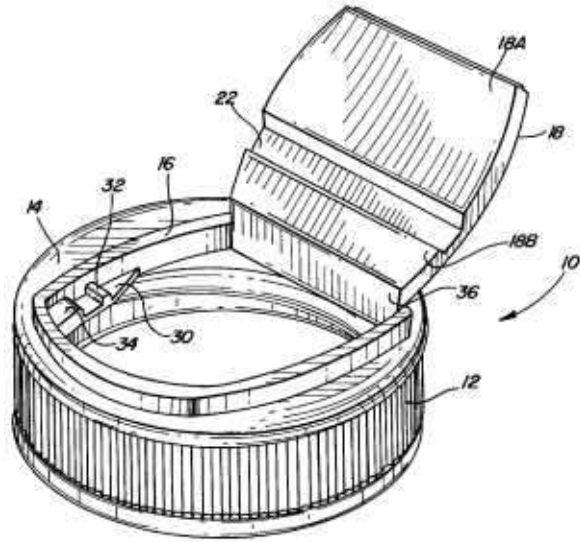
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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCI | - <a href="#">A47G19/30</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CI  | - A47G19/30 (EP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PA  | - (B2)<br>NERSWICK THOMAS A [US];<br>HAMANN DAVID [US]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TI  | - (A1 B2)<br>Spill <b>proof</b> snack bowl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AB  | - (A1)<br>The invention is a spill <b>proof</b> snack bowl or container with a box section which may have a beveled bottom. The box section may be square, rectangular, round, oval or spherical. The bowl has a continuous wall to create a depth and an open top and a removable <b>lid</b> . The removable <b>lid</b> has a secondary opening which opening is closed by a secondary opening piece. The secondary opening piece is attached to the removable <b>lid</b> with a regular or living <b>hinge</b> . The secondary opening piece closes the secondary opening with a flat spring. The distance between the front wall and the secondary opening piece edge, and the distance between side perpendicular width of the secondary opening piece and side walls are between about 1/8 and 1/2 inch. Optionally the secondary opening has an elastomeric seal. The secondary opening piece has rounded edges, and the secondary opening has rounded ridges. The invention likewise comprises a |

process of providing pea or Cheerio(TM) sized snacks to children, teenagers or adults including the steps of removing the **lid** on a snack bowl, placing the snack in the snack bowl; replacing the **lid** on the snack bowl. The **child** is provided with the snack bowl.

- (B2)

The invention is a spill **proof** snack bowl or container with a box section which may have a beveled bottom. The box section may be square, rectangular, round, oval or spherical. The bowl has a continuous wall to create a depth and an open top and a removable **lid**. The removable **lid** has a secondary opening which opening is closed by a secondary opening piece. The secondary opening piece is attached to the removable **lid** with a regular or living **hinge**. The secondary opening piece closes the secondary opening with a flat spring. The distance between the front wall and the secondary opening piece edge, and the distance between side perpendicular width of the secondary opening piece and side walls are between about 1/8 and 1/2 inch. Optionally the secondary opening has an elastomeric seal. The secondary opening piece has rounded edges, and the secondary opening has rounded ridges. The invention likewise comprises a process of providing pea or Cheerio™ sized snacks to children, teenagers or adults including the steps of removing the **lid** on a snack bowl, placing the snack in the snack bowl; replacing the **lid** on the snack bowl. The **child** is provided with the snack bowl.

PN - [US5927535](#) A 19990727  
PR - US19980031331 19980226  
AP - [US19980031331](#) 19980226  
DT - \*, Rep  
CT - *// STSE (A)*



[US3837535](#) A 00000000 [ ;  
[US3845872](#) A 00000000 [ ;  
[US3894653](#) A 00000000 [ ;  
[US3929252](#) A 00000000 [ ;  
[US3957172](#) A 00000000 [ ;  
[US3958718](#) A 00000000 [ ;  
[US4047495](#) A 00000000 [ ;  
[US4095712](#) A 00000000 [ ;  
[US4165017](#) A 00000000 [ ;  
[US4180178](#) A 00000000 [ ;  
[US4262802](#) A 00000000 [ ;  
[US4371095](#) A 00000000 [ ;  
[US4903870](#) A 00000000 [ ;  
[US5007554](#) A 00000000 [ ;  
[US5082114](#) A 00000000 [ ;  
[US5718347](#) A 00000000 [ ;  
[CH627141](#) A5 00000000 [ ]

CCI - [B65D47/0847](#) ; [B65D50/046](#)

CI - B65D47/0847 (EP)

- B65D50/046 (EP)

PA - TOP SEAL CORP [US]

TI - Tablet dispensing closure for containers

AB

- An improved **child-resistant** plastic safety closure for containers has a depending skirt on it for attaching the closure to the top of a container. The top of the closure has an opening through it, which extends over a major portion of the total area of the top. A **lid** with upper and lower surfaces is hinged at one edge of the opening in the top for closing the opening. Tongue-and-groove inter-engagement members between the **lid** member and the top, around at least part of the periphery of the opening, hold the **lid** closed in the opening. Diametrically-opposed, spaced-apart first and second fulcrum extensions are located on opposite sides of the opening a predetermined distance from the

hinged edge of the **lid** member;  
 and these fulcrum extensions  
 are located below the lower  
 surface of the **lid** member when it  
 is closed in the opening. The  
 fulcrum extensions protrude only  
 a short distance into the space  
 of the opening; and whenever a  
 predetermined pressure is  
 placed on the **lid** member in the  
 region between the hinged edge  
 and the first and second fulcrum  
 extensions, the **lid** member  
 flexes about a secondary **hinge**  
 and raises the edge opposite the  
 hinged edge above the top of the  
 closure to permit that edge to be  
 grasped and raised to pivot  
 the **lid** away from the opening.  
 This exposes the full area of the  
 opening through the top; so that  
 the contents of the container  
 readily may be removed.

**75/113** © EPODOC / EPO

PN - [WO2004039688](#) A1 20040513

PNFP - WO2004039688 A9 20040715

PR - US20020421818P 20021028; US20030634156 20030804

AP - [WO2003US33853](#) 20031024

DT - \*; Rep

CT - *[EP] ISR (A1)*  
[WO03030695](#) A1 20030417 [PYX] (FIRST YEARS INC [US], et al)  
*[PY] 1*  
*\* page 3, line 1 - page 4, line 21 \**  
*\* page 9, line 3 - line 9; figures 1-9 \**  
*[X] 2,3;*  
[US2002179614](#) A1 20021205 [PY] (ROHLFS JOEY L [US])  
*[PY] 1*  
*\* figures 1-6 \*;*  
[US4756440](#) A 19880712 [A] (GARTNER WILLIAM J [US])  
*[A] 1,2*  
*\* column 3, line 3 - column 4, line 28; figures 1-3 \*;*  
[US5667094](#) A 19970916 [A] (RAPCHAK THOMAS P [US], et al)  
*[A] 1*  
*\* figure -; claim 1 \*;*  
[FR2564317](#) A1 19851122 [A] (VULLIEZ BERNARD [FR])  
*[A] 1*  
*\* figure -; claim 1 \*;*  
[GB2303051](#) A 19970212 [A] (BARRY NICHOLA [GB])  
*[A] 1*  
*\* figure -; claims 1-3 \*;*

[US3841528](#) A 19741015 [A] (EISENBERG H)

[A] 1

\* column 1, line 5 - line 18; figures 4-6; claim 1 \*;

[US4754896](#) A 19880705 [A] (ROLTGEN JAMES P [US], et al)

[A] 1

\* the whole document \*

CCI - [A47G19/2272](#) ; [B65D43/162](#)

CCA - [B65D2543/00046](#)

CI - A47G19/2272 (EP)

- B65D43/162 (EP)

CA - B65D2543/00046 (EP)

PA - (A1 A9)

CAPITOL CUPS INC [US]

TI - (A1 A9)

DISPOSABLE LEAK **PROOF CHILD** DRINKING CUP

AB - (A1 A9)

A disposable container assembly suited for use as an **child's** drinking cup with a passive closure system, the assembly comprises a container portion (12), a **lid** portion (14), and a **hinge** (16), which joins the container portion and the **lid** portion; the **lid** portion is provided with a top surface (26), from which depends a skirt (28) that extends around the perimeter of the top surface, the top surface is also provided with a drinking spout (30), which extends upward from the top surface; the drinking spout is provided at its upper end with at least one opening; the passive closure system consists of the opening in the **lid** that is sufficiently sized so that, when a liquid beverage is unintentionally positioned at the opening, the surface tension of the liquid beverage is sufficient so that the liquid beverage does not flow through the opening under normal conditions but when a person intentionally desires to drink from the container liquid beverage flows through the opening.

**76/113** © EPODOC / EPO

PN - [WO2004035393](#) A2 20040429

PNFP - WO2004035393 A3 20040819

PR - US20020274663 20021018

AP - [WO2003US33070](#) 20031017

DT - \*\*

CT - [US] ISR (A3)

[US4718567](#) A 00000000 [X];

[US4629081](#) A 00000000 [X];

[US4127221](#) A 00000000 [X];

[US5579957](#) A 00000000 [A];

[US4244495](#) A 00000000 [A];

[US4852770](#) A 00000000 [A]

CCI - [B65D47/0804](#) ; [B65D50/046](#)

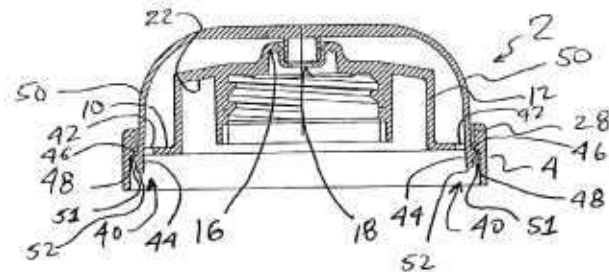
CI - B65D47/0804 (EP)

- B65D50/046 (EP)

PA - (A2 A3)

SUMMIT PACKAGING SYST;

KNICKERBOCKER MICHAEL G [US]



TI - (A2 A3)  
 FLIP-TOP CLOSURE WITH **CHILD RESISTANT** PACKAGING SYSTEM

AB - (A2 A3)  
 A flip-top closure, for dispensing a product from a container, comprising a base member having a neck and a dispensing orifice. A **cap** is formed integral with the base member and connected thereto by a **hinge** which facilitates pivoting motion of the **cap** relative to the base member. The **cap** is pivotable from an open position to a closed position, and vice versa. The **cap** carries a sealing member which facilitates sealing of the dispensing orifice when the **cap** is in the closed position. The flip-top closure includes a **child resistant** locking system, which resists opening of the flip-top container by a **child**, comprising at least one hook member carried by one of the base member and the **cap** and at least one latching surface, carried by the other of the base member and the **cap**. The hook member is located to engage with the latching surface and retain the **cap** in a locked position and resist opening of the flip-top container by a **child**.

77/113 © EPODOC / EPO

PN - [NL8303237](#) A 19850416

PR - NL19830003237 19830920

AP - [NL19830003237](#) 19830920

DT - \*; Rep

CCI - [B65D50/068](#)

CI - B65D50/068 (EP)

PA - JOHANNA GERRITDINA GASMAN GEB

TI - **Child-proof** bottle **cap** - has rocking lugs in outer sleeve tilted free by inserted pins

AB - The childproof bottle **cap** comprises an inner sleeve screwing onto the bottle neck, and an outer sleeve turning on the inner one. Rocking lugs with teeth on the top part of the outer sleeve transmit its rotary movement to the inner sleeve engaging with other lugs on the top of the latter. Each rocking lug (7) is coupled by a compression spring (6) to the

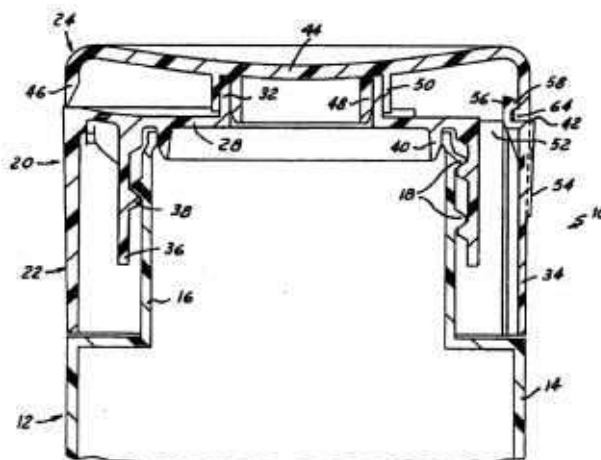
cover, and these lugs are coupled together in pairs by an elastic bar (14) to **hinge** about its axis. Holes in the top of the outer sleeve accommodate pins (5) inserted to tilt the lug teeth (12) free of the inner sleeve lugs (3).

**78/113** © EPODOC / EPO

- PN - [MX9602581](#) A 19970329
- PR - US19950497938 19950703
- AP - [MX19960002581](#) 19960703
- DT - I
- PA - WEATHERCHEM CORP [US]
- TI - TETHERED SAFETY SNAP **CAP**.
- AB - A tethered, **child resistant**, tamper evident closure for containers is provided which is particularly suited for containers of over-the-counter pharmaceuticals such as aspirin and the like. The closure includes a **cap**, a press-on retaining ring, a **hinge**, and a tear strip. The **cap** has a snap which engages a protrusion of the container and allows rotation of the **cap** relative to the container but prevents removal of the **cap** from the container except at a **cap** release position. At the **cap** release position, the snap is in angular registration with a recess in the protrusion. The retaining ring has a grip which engages a protrusion of the container and allows rotation of the retaining ring relative to the container but prevents removal of the retaining ring from the container. The **hinge** pivotally connects the **cap** to the retaining ring so that the **cap** is tethered to the container when the **cap** is removed from the container. The rear strip connects the **cap** to the retaining ring to provide tamper evidence and holds the **cap** coaxial with the retaining ring during automated assembly of the closure to the container. The **cap** and the retaining ring also have interengaging teeth which rotate the retaining ring in unison with the **cap** to the **cap** release position.

**79/113** © EPODOC / EPO

- PN - [KR20070070230](#) A 20070703
- PR - US20040975689 20041027
- AP - [KR20077011594](#) 20070522
- DT - I
- CCI - [B65D47/0804](#) ; [B65D50/046](#)
- CI - B65D47/0804 (EP)  
B65D50/046 (EP)
- PA - OWENS ILLINOIS CLOSURE INC [US]
- TI - **CHILD-RESISTANT** DISPENSING CLOSURE, PACKAGE AND METHOD OF MANUFACTURE
- AB - A **child-resistant** dispensing closure includes a base (22) having a deck (28), a dispensing opening (30) in the deck and a peripheral skirt (34) extending from the deck. A **lid** (24) is integrally hinged to the base for movement between a closed position overlying the deck and



an open position spaced from the deck. The base has an opening (52) in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a tab (56) extends from the skirt adjacent to the opening. The **lid** has a lug (64) for snap-coupling over an exterior of the tab in the closed position of the **lid**. The peripheral skirt is resiliently flexibly moveable into the opening to move the tab out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the open position.

**80/113** © EPODOC / EPO

PN - [WO9737900](#) A1 19971016

PR - GB19960007473  
19960411; GB19960021563  
19961016

AP - [WO1997GB00737](#) 19970318

DT - \*, Rep

CT - [EP] ISR (A1)  
[US4002275](#) A 00000000 [A]  
(CROWLE)  
[A] 1  
\* column 3, line 3 - column 4, line 47  
\*

\* column 5, line 12 - line 40; figures  
1-10 \*;

[EP0541846](#) A1 00000000 [A] (JOYCE)  
[A] 1,2

\* column 5, line 30 - column 8, line  
45; figures 1-6 \*;

[DE4422037](#) A1 00000000 [A] (STOLZ)  
[A] 1

\* the whole document \*;

[EP0451391](#) A1 00000000 [A] (NOMIX)  
[A] 1

\* column 5, line 39 - column 6, line  
19; figures 7-10 \*;

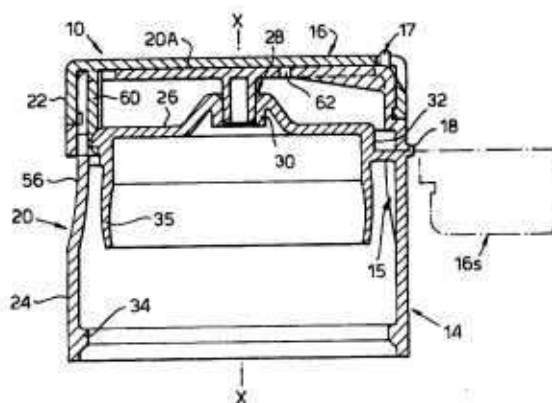
[US3765578](#) A 00000000 [A] (STULL)  
[A] 1

\* the whole document \*;

[US5462181](#) A 00000000 [A] (GLYNN)  
[A] 1

\* the whole document \*;

[CH598072](#) A5 00000000 [A] (ENDER)



- CCI - [B65D47/0838](#) ; [B65D50/045](#) ;  
[B65D50/061](#)
- CI - B65D47/0838 (EP)  
 - B65D50/045 (EP)  
 - B65D50/061 (EP)
- PA - METAL BOX PLC [GB] ;  
 CARNAUDMETALBOX SA [FR];  
 CARNAUDMETALBOX NV [NL];  
 CARNAUDMETALBOX HOLDINGS  
 USA [US] ; HEYN KLAUS [DE]
- TI - HINGED DISPENSING CLOSURE
- AB - A **child-resistant** dispensing closure is snap-engageable and freely rotatable on a container neck. The closure has body and **lid** portions (14, 14' and 16, 16') one of which has two parts capable of relative rotation. One of the two parts (20A, 22A') is attached to the other portion of the closure by an integral **hinge** (18, 18') which enables the **lid** portion to be swung between closed and open positions as required for dispensing. A catch (68, 70 and 99, 97) between the **lid** and body portions is automatically engaged when the **lid** portion is closed. In order to subsequently release the catch for dispensing, it is necessary for the user to grasp the closure with both hands and rotate the relatively rotatable parts, possibly against the action of a return spring (64, 202, 100). The closure is intended for liquid products such as liquid soaps.

PN - [GB2269811](#) A 19940223

PNFP - GB2269811 B 19960313

PR - GB19920017932 19920822

AP - [GB19930007257](#) 19930407

DT - \*: Rep

CT - || STSE (A B)  
[GB2130996](#) A 00000000 [ ]

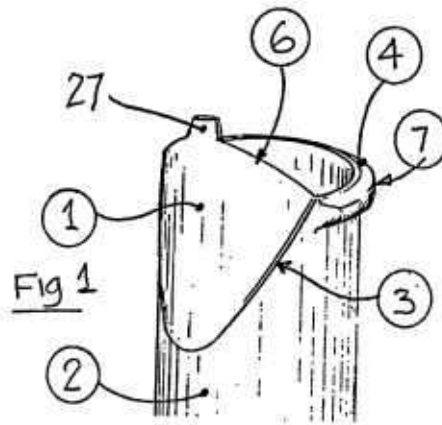
CCI - [B65D47/0809](#) ; [B65D47/2031](#) ;  
[B65D50/04](#)

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

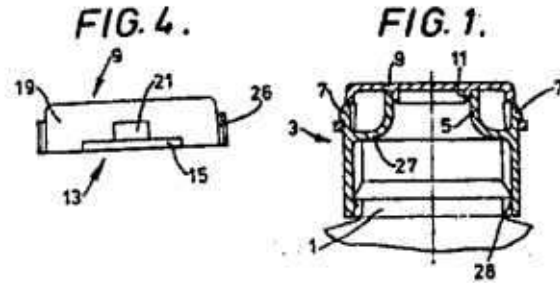
AB - (A)  
A closure comprises a flexible  
panel 1 attached to a container 2  
or **cap** by one or more hinges 3,  
the **hinge** or hinges defining an  
area which is smaller than the  
area of the panel and the panel  
being outwardly convex when in  
the open position and inwardly  
concave when 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>

82/113 © EPODOC / EPO

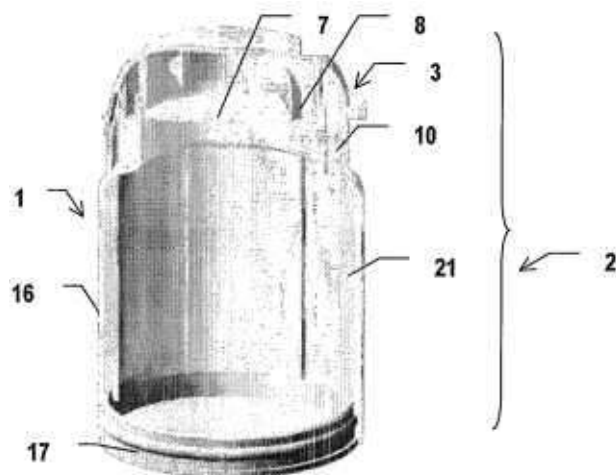
PN - [GB1484517](#) A 19770901  
 PR - DE19742435337 19740723  
 AP - [GB19750022673](#) 19750523  
 DT - \*\*  
 CCI - [B65D50/045](#)  
 CI - B65D50/045 (EP)  
 PA - NOVA HANDELS AG  
 TI - **CHILD-PROOF CLOSURE**  
 AB - 1484517 **Child - proof** two - part closures NOVA-HANDELS AG 23 May 1975 [23 July 1974] 22673/75  
 Heading B8T A **child-proof** closure  
 - comprises a skirt 3 whose upper dispensing opening 5 is closed by a **cap** 9 having interlocking engagement with the skirt. The **cap**, skirt or both are resilient such that at least one of them can be squeezed to release the interlocking parts. The **cap** may be hinged to the skirt and the latter may be permanently or removably installed on the neck 1 of the container to be closed, e.g. by being screwed, welded, glued or snap fitted. As shown the interlocking parts comprise outwardly facing, diametrically opposed skirt hooks 7 which engage in openings 13 which extend from an inner portion of a respective radially directed **cap** tab 15 to a point part way up the **cap**'s side. In the hinged embodiment, which may comprise a toggle type **hinge**, only one pair of interlocking parts need be used opposite the **hinge**. The closure may be circular, polygonal or oval and may have its **cap** provided with finger grips. The skirt may have areas which



vary in strength to assist  
unlocking.

**83/113** © EPODOC / EPO

PN - [WO2007034093](#) A1 20070329  
PNFP - WO2007034093 B1 20070531  
PR - FR20050009770 20050923  
AP - [WO2006FR02188](#) 20060925  
DT - \*\*  
CT - |EP| ISR (A1)  
DE20108334U U1 00000000 [Y]  
(ZEPPENFELDT PHARMA GMBH)  
[Y] 1-11,15-17,20,23,25  
\* the whole document \*;  
[US6174952](#) B1 00000000 [Y] (HEKAL  
IHAB M [US] ET AL)  
[Y] 1-3,6-9,12-18,20,23,25  
\* the whole document \*;  
[US3722188](#) A 00000000 [YA]  
(CULLEN J)  
[Y] 1,4,5  
\* abstract \*  
[A] 3,25;  
[FR2863968](#) A1 00000000 [YA]  
(AIRSEC [FR])  
[Y] 1,10,11  
\* page 27, lines 4-14; figure -; claim  
1 \*  
[A] 2,3,6-9,20;  
[GB1353360](#) A 00000000 [Y] (HARILD  
N)  
[Y] 1,12-14,18  
\* the whole document \*;  
[US6841211](#) B1 00000000 [A] (KNOLL  
ROBERT ET AL)  
[A] 21,22  
\* the whole document \*;  
[EP1352844](#) A1 00000000 [A] (CSP  
TECHNOLOGIES INC [US])  
[A] 1  
\* the whole document \*;  
[FR2858301](#) A1 00000000 [A] (AIRSEC  
[FR])  
[A] 1  
\* the whole document \*;  
[WO2004096658](#) A1 00000000 [A]  
(RANBAXY LAB LTD [IN]; MALIK  
RAJIV [AT]; CHOWDHURY SANTANU  
[IN]; AGGARW)  
[A] 1  
\* the whole document \*;



[WO9633108](#) A1 00000000 [A]  
(CAPITOL VIAL INC [US])  
[A] 1  
\* the whole document \*

- CCI - [B65D11/04](#) ; [B65D47/0809](#) ;  
[B65D81/266](#)
- CI - B65D11/04 (EP)  
- B65D47/0809 (EP)  
- B65D81/266 (EP)
- PA - (A1 B1)  
AIRSEC SOC PAR ACTIONS SIMPLIF  
[FR]; NOBILET ROGER [FR];  
LANCESSEUR DIDIER [FR]
- TI - (A1 B1)  
SINGLE-UNIT CONTAINER WITH  
HINGED **CAP/LID**
- AB - (A1 B1)  
The invention concerns a  
container (1) for packaging  
products, comprising an  
envelope (2) formed by a skirt  
extending over the entire length  
of the body of said container,  
whereof the base is open prior  
to being filled, reversible  
closable closure means such as  
a **cap/lid** (3) having a **hinge** (4)  
linking the reversible closure  
means to the envelope, optional  
tamperproof means (6),  
optional **child-resistant** opening  
means, and means for closing  
(17) the open end of the  
envelope. The invention is  
characterized in that said  
container comprises a device for  
controlling its internal  
atmosphere (20).

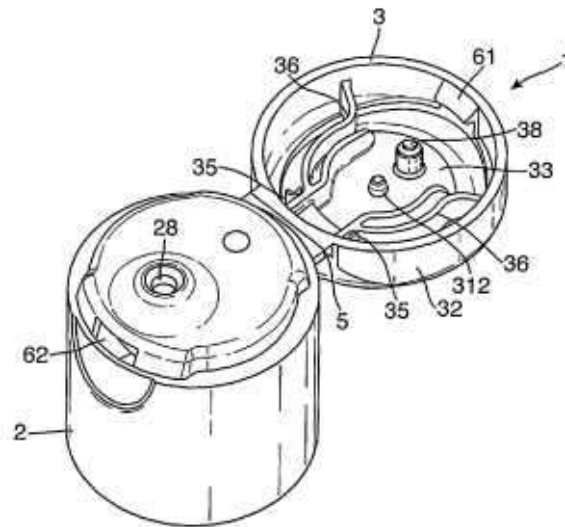
**84/113** © EPODOC / EPO

- PN - [FR2628716](#) A1 19890922
- PNFP - FR2628716 B1 19900817
- PR - FR19880003470 19880317
- AP - [FR19880003470](#) 19880317
- DT - \*; Rep
- CT - // STSE (A1)  
[US4444326](#) A 00000000 [X];  
[GB2166423](#) A 00000000 [X];  
[EP0089395](#) A1 00000000 [Y]

CCI - [B65D50/045](#)  
CI - B65D50/045 (EP)  
PA - (A1 B1)  
SANOFI SA [FR]  
TI - (A1)  
Childproof medicine jar **cap** - has plastics **cap** clipped onto jar rim with flexible outer wall to give access to flip top **lid**  
AB - (A1)  
The small pill jar (1) has a rounded rim (10) on which a plastics, e.g. polyethylene or polypropylene **cap** (2) is fixed. The **cap** (2) has rigid (11) and deformable (13) lip which locate under the rim (10) to hold the **cap** in place. To open the **lid** (4) the tamperproof strip (6) must be torn off by gripping the tab (18), the flexible wall (15) must be pressed inwards into the free space (17) and the **lid** flipped up about a **hinge** (5) using a finger. When the wall (15) is depressed inwards, the user's finger can gain access to the **lid** rim (8) to lift the lip (13) clear of the jar neck (10). The lip (13) extends around 100 deg. of the circumference of the jar so that the **cap** is retained on the jar by the rigid lip (11) when the **lid** is open. ADVANTAGE - The double synchronised action of depressing a flexible wall and flipping up a **lid** provides a method of rendering a pill jar **child proof**.

85/113 © EPODOC / EPO

PN - [WO2006003168](#) A1 20060112  
PR - EP20040253917 20040630  
AP - [WO2005EP53085](#) 20050629  
DT - \*, Rep  
CT - [EP] ISR (A1)  
[GB1484517](#) A 00000000 [X] (NOVA  
HANDELS AG)  
[X] 1,2,6,10  
\* page 2, line 48 - line 121; figures 1-  
6 \*;  
[FR2591571](#) A1 00000000 [X]  
(VEDDER & CO GMBH)  
[X] 1,2,6,10  
\* page 2, line 31 - page 4, line 10 \*  
\* page 6, line 3 - page 8, line 4;  
figures 1-6 \*;  
[US5683016](#) A 00000000 [X]  
(SANTAGIULIANA EVANS)  
[X] 1,2,6,10  
\* column 3, line 11 - line 20; figures  
1-4 \*;  
[US3603470](#) A 00000000 [XA]  
(ARMOUR DONALD F)  
[X] 1,2,10  
\* column 2, line 70 - column 3, line  
6; figures 1-3 \*  
[A] 7;  
[WO9957031](#) A1 00000000 [X]  
(CREANOVA AG)  
[X] 1,2,6,10

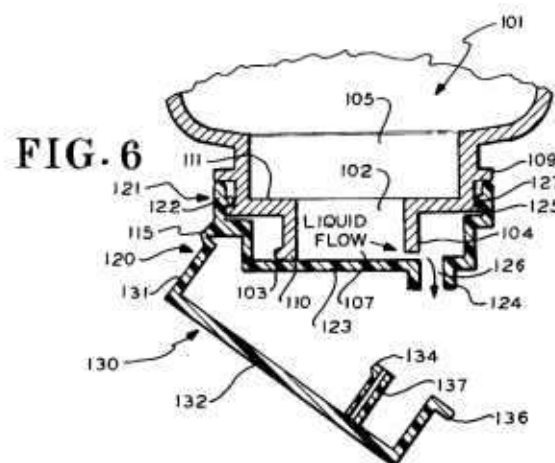


\* page 8, line 19 - page 10, line 17;  
figures 1-11 \*

- CCI - [B65D47/0804](#) ; [B65D50/046](#)
- CCA - [B65D2251/105](#)
- CI - B65D47/0804 (EP)  
- B65D50/046 (EP)
- CA - B65D2251/105 (EP)
- PA - CROWN PACKAGING TECHNOLOGY  
INC [US]; CROWN PACKAGING UK  
PLC [GB]; TANNER ROGER  
GEOFFREY [GB]; RAMSEY  
CHRISTOPHER PAUL [GB];  
WHITEMAN JONATHON PAUL [GB];  
PELLENZ JUERGEN [DE]
- TI - DISPENSING CLOSURE
- AB - A **child resistant** dispensing  
closure 1 having a smooth  
external surface. The closure 1  
comprises a body 2 and a **lid** 3,  
connected together by a **hinge** 5.  
The **lid** 3 is held closed against  
the body 2 by a catch 6. The  
closure 1 has a resilient ring 4,  
which in its deformed  
configuration co-operates with  
the catch 6 to unlock it and  
provides a lifting region 65, by  
which a user may lift the **lid** 3 of  
the closure 1.

86/113 © EPODOC / EPO

- PN - [EP0541846](#) A1 19930519
- PR - US19890445416 19891204
- AP - [EP19910119422](#) 19911114
- DT - \*; Rep
- CT - // STSE (A1)  
[WO9014286](#) A1 00000000 [A];  
[US4718567](#) A 00000000 [AD]
- CCI - [B65D47/0838](#) ; [B65D50/061](#)
- CCA - [B65D2251/1016](#)
- CI - B65D47/0838 (EP)  
- B65D50/061 (EP)
- CA - B65D2251/1016 (EP)
- PA - JOYCE MOLDING CORP [US]
- TI - **Child-proof** container and flip-top  
closure for dry or for liquid  
contents.



AB

- A **child-proof** container (101) and a closure (120) for selectively opening and closing said container. The hollow container has at its upper end a dispensing opening (102). The closure has a body member (121) and a flip-top **cap** (123) member attached by a **hinge** to said body member for movement between open and closed positions. The body member (121) is supported and locked on the container to permit rotational movement of the body member on the container. The container has an annular locking rib (103) for releasable locking engagement with a locking bead (134) on the **cap** member to permit unlocking of the **cap** member from the container only when the body member is rotated to an unlocking position with respect to the container, whereby the **cap** member may be moved from a closed to an open position to permit dispensing of contents from the container. The **child-proof** container and the closure are provided with corresponding indicia to indicate the precise rotational alignment of the container and the body member to permit unlocking of the **cap** member from the container. The **child-proof** container and closure is constructed in different embodiments for dry contents or for liquid contents. The **child-proof** container is made of essentially rigid materials. The closure is made of essentially semi-flexible materials. The **child-proof** container and closure are provided with a diverter which requires precise alignment of the closure with respect to the container in order open the container. The **child-proof** container and closure are

provided with a diverter which automatically locks the container upon closing of the closure with respect to the container. <IMAGE>

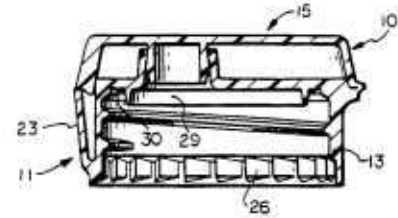
**87/113** © EPODOC / EPO

- PN - [EP0391458](#) A1 19901010
- PNFP - EP0391458 B1 19940518
- PR - US19890333067 19890403; US19890436565 19891114
- AP - [EP19900200704](#) 19900326
- DT - \*; Rep
- CT - *// STSE (A1)*  
DE8705417U U1 00000000 [A];  
[US4048050](#) A 00000000 [AD];  
[FR2429718](#) A1 00000000 [A];  
[US8907103](#) B2 20141209 [A] (GOMEZ-GALENO JORGE E [US], et al)
- CCI - [B65D50/045](#) ; [E05B65/0014](#)
- CCA - [Y10T292/0902](#)
- CI - B65D50/045 (EP)  
E05B65/0014 (EP)
- CA - Y10T292/0902 (EP, US)
- PA - (A1 B1)  
NORWICH EATON PHARMA [US]
- TI - (A1 B1)  
**Child resistant** container for storing hazardous materials.
- AB - (A1)  
A **child resistant** box (20) which is composed of a base (23), a **lid** (22) and a **hinge** (30) connecting the base (23) and **lid** (22) together. A latching mechanism is located on each of the two sides of the box for releasably retaining the **lid** (22) to the base (23). The box (20) can be moved between open, intermediate, and closed positions. The box (20) also includes a means for biasing the **lid** from the intermediate position toward the closed position. To open the box (20) the **lid** (22) is compressed to the intermediate position. In this intermediate position, the latching mechanism may be disengaged by exerting manual pressure thereon toward the center of the box (20) . Once pressure is exerted simultaneously on both latching mechanisms the **lid** (22) is released and the biasing means moves the **lid** (22) at least partially toward the open position. The operation of this box (20) is particularly well-suited for the elderly. Although this **child resistant** box can house virtually anything, it is particularly well suited for housing a set of blister cards which include a plurality of medicaments to be taken at different times during a therapeutic regimen.

**88/113** © EPODOC / EPO

PN - [EP0379775](#) A1 19900801  
 PNFP - EP0379775 B1 19930929  
 PR - US19890302850 19890127  
 AP - [EP19890307796](#) 19890801  
 DT - \*: Rep  
 CT - || *STSE* (A1)  
       [EP0289111](#) A2 19881102 [X]  
       (POLYTOP CORP [US]);  
       [US4209100](#) A 19800624 [X] (UHLIG  
       ALBERT R [US]);  
       [US4513888](#) A 19850430 [X] (CURRY  
       JOHN J [US]);  
       [GB2166423](#) A 19860508 [A]  
       (JOHNSEN & JORGENSEN);  
       [US4220262](#) A 19800902 [A] (KRALL  
       THOMAS J [US], et al);  
       [EP0006512](#) A1 19800109 [A] (CZECH  
       JOACHIM [DE])  
 CCI - [B65D47/0838](#) ; [B65D50/045](#)  
 CCA - [B65D2251/1066](#) ; [B65D2255/20](#)  
 CI - B65D47/0838 (EP)  
       B65D50/045 (EP)  
 CA - B65D2251/1066 (EP)  
       B65D2255/20 (EP)  
 PA - (A1)  
       OWENS ILLINOIS CLOSURE INC [US]  
 TI - (A1)  
       **Child resistant** dispensing closure.  
       (B1)  
       **CHILD RESISTANT** DISPENSING  
       CLOSURE  
 AB - (A1)  
       A **child resistant** dispensing  
       closure comprising a first part  
       (11) having a base wall (12) and  
       a peripheral skirt (13) adapted to  
       be threaded onto a container.  
       The peripheral skirt includes  
       interengaging portions (26) that  
       engage portions of the container  
       to prevent removal from the  
       container. The closure also  
       includes a second part or **lid** (15)  
       connected to the first part by an  
       integral **hinge** (16) and having a  
       base wall (17), peripheral skirt  
       (18) and a closing portion (19)  
       adapted to extend into a nozzle  
       (20) on the base wall of the first

FIG. 4



part when the second part is moved into overlying relationship to the first part. Snap lugs (21) on the second part engage bead segments (22) on the first part to hold the second part in closed position. The diameter of the skirt of the first part includes a radial flange (13a) that extends circumferentially about most of the periphery of the skirt. The flange is connected integrally to an outer radially deflectable wall panel (23). The skirt (18) of the second part is smaller than the diameter of the flange (13a) so that the flange projects radially beyond the lid skirt and the lid skirt cannot be raised readily. A shoulder projects axially from the flange to center the lid and support the skirt against radial deflection. By pressing the deflectable wall panel (23) radially inwardly the panel engages an axial rib (25) on the skirt of the lid camming the skirt of the lid upwardly and exposing it so that it may be opened.

89/113 © EPODOC / EPO

PN - [EP0345394](#) A1 19891213  
 PNFP - EP0345394 B1 19931110  
 PR - US19880206163 19880610  
 AP - [EP19880307792](#) 19880823  
 DT - \*\*  
 CT - || STSE (A1)  
[FR2380195](#) A1 19780908 [X]  
 (CREATECHNIC PATENT AG [CH]);  
[US4209100](#) A 19800624 [YD] (UHLIG  
 ALBERT R [US]);  
[GB2166423](#) A 19860508 [Y]  
 (JOHNSEN & JORGENSEN);  
[US3702165](#) A 19721107 [A] (CAROW  
 ROBERT N, et al);  
[FR2591571](#) A1 19870619 [A]  
 (VEDDER & CO GMBH [DE]);  
[EP0006512](#) A1 19800109 [A] (CZECH  
 JOACHIM [DE]);

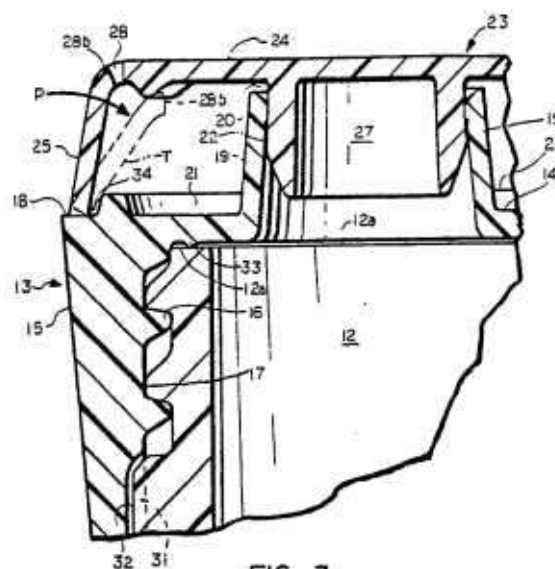


FIG. 3

[GB2101981](#) A 19830126 [A]  
 (SUNBEAM PLASTICS CORP [US]);  
[EP0208413](#) A2 19870114 [AD]  
 (OWENS ILLINOIS INC [US]);  
[US4752014](#) A 19880621 [AP] (HOUSE  
 RANDALL F [US], et al)

- CCI - [B65D50/045](#) ; [B65D55/02](#)
- CCA - [B65D2255/20](#)
- CI - B65D50/045 (EP)  
 - B65D55/02 (EP)
- CA - B65D2255/20 (EP)
- PA - (A1 B1)  
 OWENS ILLINOIS CLOSURE INC [US]
- TI - (A1 B1)  
**Child resistant hinge** top closure.
- AB - (A1)  
 A hinged dispensing closure (11) of unitary molded construction is disclosed which may be readily opened by an adult using one hand. A narrow slot (28) of short length is molded near the periphery of the top wall of the snap-hinged cover **cap** (23) opposite its hinged connection to the main closure. The sidewall of the cover **cap** includes axially extending parallel score lines (25a) from near its skirt edge to the ends of the slot to define a tab (T). Pressing by the thumb on the tab while holding the package in the same hand ruptures the scores and deflects the tab inwardly for ready access to an exposed edge of the formed slot; and pressure on the edge opens the cover **cap**. The deflected tab is held by an internal cam wall (29) inwardly of the slot, which indicates that the package is opened when the tab is held in this deflected position. A second embodiment provides a hook and latch locking (41,42) means between the main closure and cover **cap** opposite the **hinge**. This lock may be disengaged by the thumb for unlatching the cover **cap** by

depressing its skirt wall at the hook and latch location and opening the cover cap with one hand. The main closure is threaded on the container. The main closure and container are provided with cooperating ratchet teeth (31,32) to render the closure on the container a safety closure against accidental removal by children.

90/113 © EPODOC / EPO

PN - [EP0286936](#) A2 19881019

PNFP - EP0286936 A3 19890322

PR - DE19873723670  
19870717; DE19870005412U  
19870411

AP - [EP19880105368](#) 19880402

DT - \*; Rep

CT - // STSE (A3)  
[US4520921](#) A 00000000 [X];  
[FR2429718](#) A1 00000000 [A];  
[US3968880](#) A 00000000 [A]

CCI - [B65D55/02](#)

CCA - [B65D2215/06](#)

CI - B65D55/02 (EP)

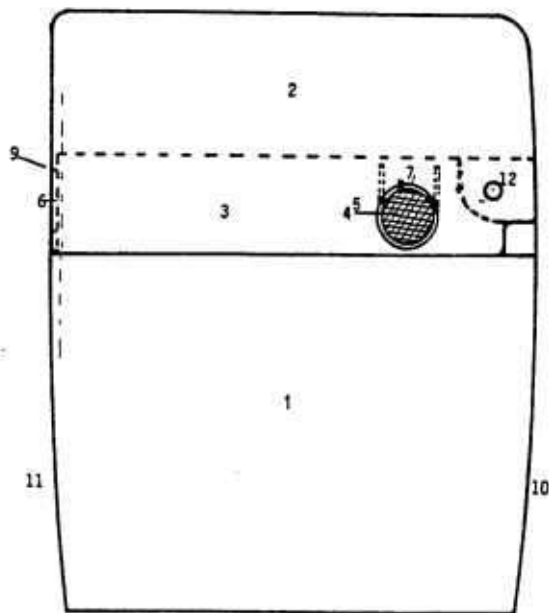
CA - B65D2215/06 (EP)

PA - (A2)  
SADLER NORBERT

TI - (A2)  
Recipient with a **child-proof**  
locking device.  
- (A3)  
RECIPIENT WITH A **CHILD-PROOF**  
LOCKING DEVICE

AB - (A2)  
The receptacle has several operating devices which are to be actuated simultaneously, said operating devices being mounted on the outside surfaces which are perpendicular to the standing surface of the receptacle in such a way that the mutual spacing of the operating devices relative to one another is greater than the possible span of a **child's** hand. The operating

Fig. 1



devices are shaped out of the bottom piece (1) as resilient self-locking tongues (4, 5, 6) or are mounted on said bottom piece. The operating devices fit positively into the openings (9, 7, 8) of the lid (2) which overlaps the bottom piece (1). The lid (2) itself is constructed as a part of the filling space and the bottom piece (1) and the lid (2) can be opened out about the hinge point (12) or the lid (2) can be removed from the bottom piece (1) to improve accessibility. <IMAGE>

91/113 © EPODOC / EPO

PN - [EP0023396](#) A1 19810204

PNFP - EP0023396 B1 19830824

PR - US19790061832  
19790730; US19790108642 19791231

AP - [EP19800302262](#) 19800703

DT - \*; Rep

CT - || STSE (A1)  
AT230757B B 00000000 [ ];  
[US4002275](#) A 00000000 [ ];  
[DE2649218](#) A1 00000000 [ ];  
[DE2749946](#) A1 00000000 [ ];  
[US3927805](#) A 00000000 [ ];  
[US4010875](#) A 00000000 [ ];  
[US3888374](#) A 00000000 [ ];  
[GB1484517](#) A 00000000 [ ];  
[US3894655](#) A 00000000 [ ]

CCI - [B65D47/0838](#) ; [B65D47/0842](#) ;  
[B65D50/045](#)

CCA - [B65D2251/1016](#) ; [B65D2255/20](#)

CI - B65D47/0838 (EP)  
B65D47/0842 (EP)  
B65D50/045 (EP)

CA - B65D2251/1016 (EP)  
B65D2255/20 (EP)

PA - (A1)  
SUNBEAM PLASTICS CORP [US]

TI - (A1)  
**Child-resistant** dispensing closure.  
(B1)  
**CHILD-RESISTANT** DISPENSING  
CLOSURE

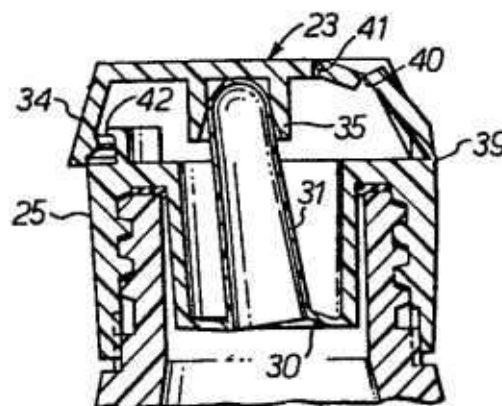


FIG. 6

AB

- (A1)

A **child-resistant** dispensing closure fabricated from resilient material has an inverted cup-shaped body and an axially protruding nozzle (31). A saucer-shaped **lid** (23) for closing the nozzle is connected to the body by a flexible **hinge** which is unitary with the body and the **lid** and which is located at one edge of the body. Cooperating means (42) for retaining the **lid** in closed position overlying the body and the nozzle comprise catch means being located diametrically opposite the **hinge**. The **lid** has a maximum diameter no greater than the diameter of the top of the body. The catch means may be at least partially disengaged by moving the **lid** laterally relative to the body so that a portion of the **lid** protrudes radially beyond the top of the body. By grasping the protruding portion of the **lid**, the **lid** then may be swung angularly away from closing position.

92/113 © EPODOC / EPO

PN

- [EP1502871](#) A2 20050202

PNFP

- EP1502871 A3 20060510

- EP1502871 B1 20070815

PR

- US20030628521 20030728

AP

- [EP20040254531](#) 20040728

DT

- \*; Rep

CT

- || STSE (A3)

[US5356017](#) A 00000000 [A] (ROHR ET AL)

[A] 1-12

\* column 4, line 38 - column 5, line 28; figures 1-7 \*;

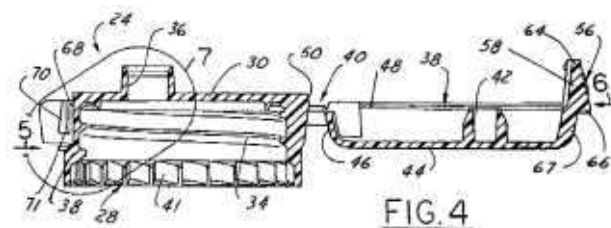
[US5628533](#) A 00000000 [A] (HILL ET AL)

[A] 1,10

\* column 3, line 15 - column 4, line 16; figures 1-6 \*;

[JP2003104429](#) A 00000000 [A];

JPH09142511 A 00000000 [A]



CTNP - *// STSE (A3)*  
 [A] - PATENT ABSTRACTS OF JAPAN, (20030806), vol. 2003, no. 08,  
 & JP2003104429 A 20030409 (YOSHINO KOGYOSHO CO LTD)  
*[A] 1*  
*\* abstract \**  
 [A] - PATENT ABSTRACTS OF JAPAN, (19971031), vol. 1997, no. 10,  
 & JP09142511 A 19970603 (DAINIPPON PRINTING CO LTD)  
*[A] 1*  
*\* abstract \**

CCI - [B65D47/0804](#) ; [B65D50/046](#)

CCA - [B65D2251/1058](#)

CI - B65D47/0804 (EP)  
 - B65D50/046 (EP)

CA - B65D2251/1058 (EP)

PA - *(A2 A3 B1)*  
 OWENS ILLINOIS CLOSURE INC [US]

TI - *(A2 A3 B1)*  
**Child-resistant** flip-top dispensing closure and package

AB - *(A2)*  
 A **child-resistant** dispensing closure includes a base (28) having a deck (30) with a dispensing opening (36) and a peripheral skin (32). A **lid** (38) is integrally molded with the base and coupled by a **hinge** (40) to a periphery of the base so as to be pivotable between closed and open positions. One of the base and the **lid** has a latch arm (56) resiliently extending from its periphery diametrically opposite the **hinge**. The latch arm has a pair of oppositely extending tabs (60,62) adjacent to a free end (58) of the arm. The other of the base and the **lid** has an axial passage (68) for receiving the latch arm, and a pair of laterally spaced ledges (70,72) in the passage for engagement by the tabs to lock the **lid** in the closed position. The latch arm is directly manually

engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the **lid** can be pivoted to the open position.

**93/113** © EPODOC / EPO

PN - [DE4006518](#) A1 19910404  
 PR - DE19904006518 19900302  
 AP - [DE19904006518](#) 19900302  
 DT - \*; Rep  
 CT - *// STSE (A1)*  
       DE8336161U U1 00000000 [ ];  
       [US4163496](#) A 00000000 [ ]  
 CCI - [B65D43/169](#)  
 CCA - [B65D2251/1041](#)  
 CI - B65D43/169 (EP)  
 CA - B65D2251/1041 (EP)  
 PA - GLOBOL GMBH [DE]  
 TI - **Child-proof** table cover - made of plastic material with detent releasable by deflecting certain section  
 AB - A plastic cover for household packs of chemical tablets, specially for dish washing units, has a rectangular frame (1) which is joined by a film **hinge** (9) to a **lid** (2). This has a flexible section (6), e.g. due to a groove (10) with a locking bar (4) at the end, which fits, when closed, under the detent edge (3). To release it, the section (5) must be deflected to a bow as shown dotted (7) and the **lid** can be swung open by gripping in the recesses (8) with the fingers. ADVANTAGE - Childproof but easy to open by adults and can be made at low cost.

**94/113** © EPODOC / EPO

PN - [DE3625477](#) A1 19880204  
 PNFP - DE3625477 C2 19940804  
 PR - DE19863625477 19860728  
 AP - [DE19863625477](#) 19860728  
 DT - \*; Rep  
 CT - *// STSE (A1)*  
       [DE2435337](#) A1 00000000 [ ]  
 CCI - [B65D47/0838](#)  
 CCA - [B65D2215/02](#)  
 CI - B65D47/0838 (EP)  
 CA - B65D2215/02 (EP)  
 PA - (A1 C2)  
       FRIEDHOFF & MUELLER FM PLAST [DE]

- TI - (A1)  
Hinged closure for bottles or similar containers
- AB - (A1)  
The invention relates to a **child-resistant** hinged closure for bottles or similar containers, having a closure **cap** (1) made of plastic onto which a hinged **lid** (2) is integrally moulded via a **hinge**. As the **child-resistant** safeguard, a catch (10) is moulded integrally onto the closure **cap** (1) so as to be resiliently pivotable in the radial direction in each case in two diametrically opposite cutouts (7) in the circumferential wall (6) of the closure **cap** (1), said catch engaging with a hooked projection (11) in a corresponding slot (12) in the hinged **lid** (2). <IMAGE>

**95/113** © EPODOC / EPO

- PN - [DE3342883](#) A1 19850605
- PR - DE19833342883 19831126
- AP - [DE19833342883](#) 19831126
- DT - \*, Rep
- CT - || STSE (A1)  
[DE2502903](#) A1 00000000 [ ];  
[US4067482](#) A 00000000 [ ];  
[US3770168](#) A 00000000 [ ];  
[US3236421](#) A 00000000 [ ];  
[US3198399](#) A 19650803 [ ] (SAGARIN PHILIP H);  
[US3149761](#) A 00000000 [ ]
- CCI - [B65D83/205](#) ; [B65D83/56](#)
- CCA - [B05B11/0027](#) ; [B65D83/22](#) ; [B65D83/40](#) ; [B65D2215/04](#)
- CI - B65D83/205 (EP)  
- B65D83/56 (EP)
- CA - B05B11/0027 (EP)  
- B65D83/22 (EP)  
- B65D83/40 (EP)  
- B65D2215/04 (EP)
- PA - THERMOPLAST & APPARATEBAU GMBH [DE]
- TI - **Child-resistant** protective **cap** for aerosol spray cans
- AB - A **child-resistant** protective **cap** which covers the spraying valve at the upper end of the can is provided with a protective flap which can be pivoted upwards, exposes the access to the spraying valve in the opened state and is connected integrally to the **cap** body via a **hinge**. The protective flap has an outer hook which opens in the opening direction of the protective flap and to which an inner hook is assigned on the **cap** body, said inner hook opening counter to the opening direction of the protective flap. In the closed position of the protective flap, the protective flap and the **cap** body rest against one another, such that the hooks can only be disengaged by elastic deformation of the protective flap substantially counter to the opening direction thereof. Arranged in the **hinge** region is a catch device which is suitable for retaining the protective flap in the open position.

**96/113** © EPODOC / EPO

- PN - [DE2703732](#) B1 19780309
- PNFP - DE2703732 C2 19781116

PR - DE19772703732 19770129

AP - [DE19772703732](#) 19770129

DT - \*; Rep

CCI - [E05B65/0014](#) ; [E05C19/06](#)

CCA - [A47B2067/025](#)

CI - E05B65/0014 (EP)  
- E05C19/06 (EP)

CA - A47B2067/025 (EP)

PA - (B1)  
FI SOVO WERKZENCBAU GMBH

TI - (B1)  
Medicine cabinet with **child-proof** spring catches - can only be opened by simultaneous operation of four spaced catches

AB - (B1)  
A medicine cabinet is of rectangular shape and is provided with a **lid** (4) attached by a **hinge** (8) along one side (1). The edge of the **lid** (4) is provided with an internal groove, to receive the notched ends (5') of four leaf springs (5). Each leaf spring (5) is clamped in a slot in the side walls of the box and is provided with a knob (6) which is externally accessible through a hole (3). Each catch can be released by pressing the knob (6) inwards but in order to open the **lid** (4) all four catches must be pressed simultaneously. The catches are so spaced that the distance between any two is greater than the span of a **child's** hand so that the cabinet can only be opened by an adult.

97/113 © EPODOC / EPO

PN - [CN101052571](#) A 20071010

PNFP - CN101052571B B 20101201

PR - WO2005US33374  
20050920; US20040975689 20041027

AP - [CN20058036912](#) 20050920

DT - I

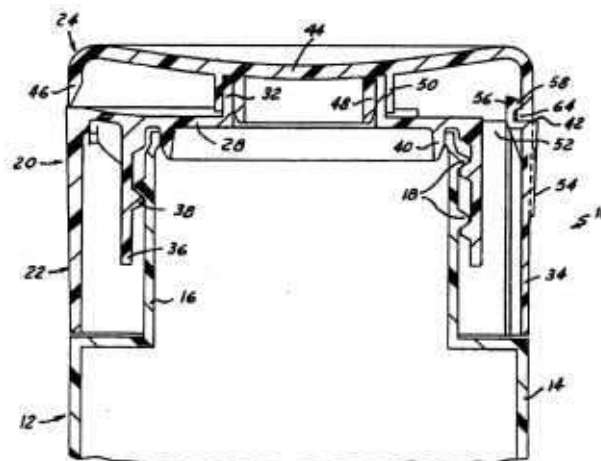
CCI - [B65D47/0804](#) ; [B65D50/046](#)

CI - B65D47/0804 (EP)  
- B65D50/046 (EP)

PA - (A)  
OWENS ILLINOIS CLOSURE INC [US]  
- (B)  
OWENS ILLINOIS CLOSURE INC

TI - (A B)  
**Child-resistant** dispensing closure,  
package and method of  
manufacture

AB - (A B)  
A **child-resistant** dispensing  
closure includes a base having a  
deck, a dispensing opening in  
the deck and a peripheral skirt  
extending from the deck. A **lid** is



integrally hinged to the base for movement between a closed position overlying the deck and an open position spaced from the deck. The base has an opening in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a tab extends from the skirt adjacent to the opening. The **lid** has a lug for snap-coupling over an exterior of the tab in the closed position of the **lid**. The peripheral skirt is resiliently flexibly moveable into the opening to move the tab out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the open position.

98/113 © EPODOC / EPO

PN - [CN1863711](#) A 20061115

PNFP - CN1863711B B 20100929

PR - US20040538596P 20040123; WO2004US28760 20040903; US20030500428P 20030905

AP - [CN20048028961](#) 20040903

DT - I

CCI - [B65D50/045](#) ; [B65D50/069](#)

CCA - [B65D2215/02](#)

CI - B65D50/045 (EP)  
- B65D50/069 (EP)

CA - B65D2215/02 (EP)

PA - (A)  
CSP TECHNOLOGIES INC [US]  
- (B)  
CSP TECHNOLOGIES INC

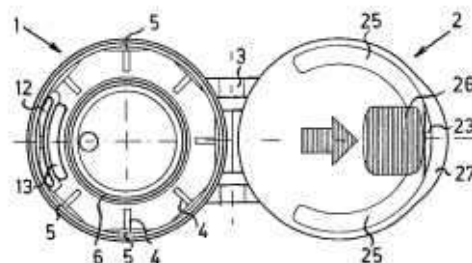
TI - (A B)  
Unitary container and flip-top **cap** assembly having **child resistant** safety features

AB - (B)  
Containers with **child resistant** safety caps are disclosed herein. In one embodiment, the **cap** contains an overlay portion and a solid base. The overlay fits over at least a portion of the **cap**'s solid base. At an end of a first portion of the overlay, the overlay has a thumb tab for facilitating the opening and closing of the **cap**. Two notches are in the overlay's tubular skirt and located on opposing sides of the overlay where the first end portion meets the second end portion. When the **cap** is shut, the overlay is secured directly over the **cap**. If an upward force is only applied to the thumb tab, and then the first end portion of the overlay is lifted up but the solid base of the **cap** remains secured to the container. If an upward force is applied to the thumb tab while, simultaneously, sufficient inward force is applied to opposing sides of the overlay so as to contact and secure the tubular skirt of the **cap**, then the solid base of the **cap** is simultaneously

lifted up along with the first end portion of the overlay thereby opening the container. In a second embodiment, the container and **cap** assembly contains a sliding part in the **cap**. The sliding part may be supplied separate from the container and **cap** assembly, allowing the user to determine if a **child-resistant** or non-**child resistant cap** is formed. In the **child resistant** embodiment, the sliding part is configured within the **cap** whereby at least a portion of the sliding part protrudes out from the **cap** in a location near or proximate to the **hinge**. To open the **cap**, the user applies sufficient force to the sliding part, pushing it in a direction away from the **hinge** so that at least a portion the sliding part protrudes out of the portion of the **cap** that is substantially opposite the **hinge**. Then the user applies a second sufficient force in an upward direction to open the **cap**.

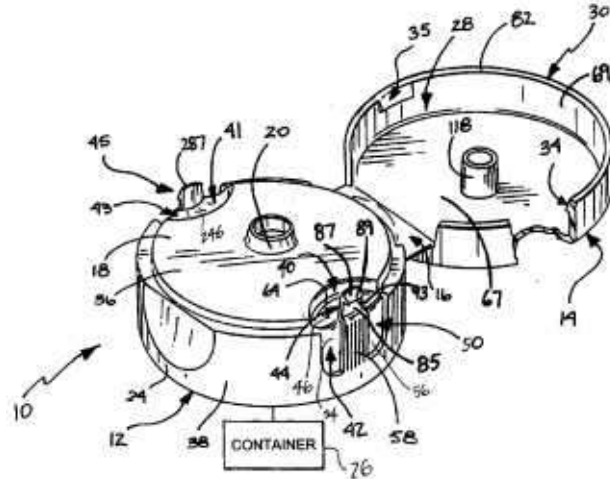
99/113 © EPODOC / EPO

- PN - [CH663396](#) A5 19871215
- PR - CH19840002486 19840521
- AP - [CH19840002486](#) 19840521
- DT - \*; Rep
- CCI - [B65D47/0814](#) ; [B65D50/045](#)
- CI - B65D47/0814 (EP)  
- B65D50/045 (EP)
- PA - ALFATECHNIC AG
- TI - **Child-resistant** plastic **hinge** closure
- AB - The closure consists of a bottom part (1) and a **cap** connected thereto via a **hinge** (3). The bottom part (1) has an inner sealing region which is defined by the sealing lip (6). Outside the sealing region in the bottom part (1) there is an opening (12, 13) inside which a radially movable latch is arranged. By pressure on a pressure surface (26), a ram in the **cap** (2) displaces the latch in such a way that the **cap** (2) can now be opened whilst maintaining the pressure. <IMAGE>



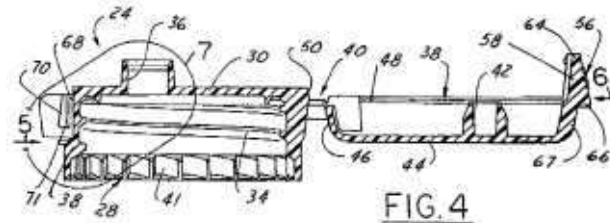
100/113 © EPODOC / EPO

PN - [CA2569957](#) A1 20070602  
 PNFP - CA2569957 C 20110809  
 PR - US20050743006P  
 20051202; US20060564769 20061129  
 AP - [CA20062569957](#) 20061204  
 DT - I  
 CCI - [B65D47/0809](#) ; [B65D50/046](#)  
 CI - B65D47/0809 (EP)  
 - B65D50/046 (EP)  
 PA - (A1 C)  
 BERRY PLASTICS CORP [US]  
 TI - (A1 C)  
**CHILD-RESISTANT CLOSURE**  
 AB - (A1 C)  
 A **child-resistant** closure is provided for connection to a container. The closure includes a base and a **cap**. The **cap** is secured to the base of the closure by use of a **hinge**.



**101/113** © EPODOC / EPO

PN - [CA2475706](#) A1 20050128  
 PNFP - CA2475706 C 20081223  
 PR - US20030628521 20030728  
 AP - [CA20042475706](#) 20040723  
 DT - I  
 CCI - [B65D47/0804](#) ; [B65D50/046](#)  
 CCA - [B65D2251/1058](#)  
 CI - B65D47/0804 (EP)  
 - B65D50/046 (EP)  
 CA - B65D2251/1058 (EP)  
 PA - (A1 C)  
 OWENS ILLINOIS CLOSURE INC [US]  
 TI - (A1 C)  
**CHILD-RESISTANT FLIP-TOP DISPENSING CLOSURE AND PACKAGE**  
 AB - (A1 C)  
 A **child-resistant** dispensing closure includes a base having a deck with a dispensing opening and a peripheral skirt. A **lid** is integrally molded with the base and coupled by a **hinge** to a periphery of the base so as to be



pivotable between closed and open positions. one of the base and the **lid** has a latch arm resiliently extending from its periphery diametrically opposite the **hinge**. The latch arm has a pair of oppositely extending tabs adjacent to a free end of the arm. The other of the base and the **lid** has an axial passage for receiving the latch arms, and a pair of laterally spaced ledges in the passage for engagement by the tabs to lock the **lid** in the closed position. The latch arm is directly manually engageable by a user from a radial direction external to the closure to pivot the latch arm radially inwardly within the passage and release the tabs from the ledges so that the **lid** can be pivoted to the open position.</S DOAB>

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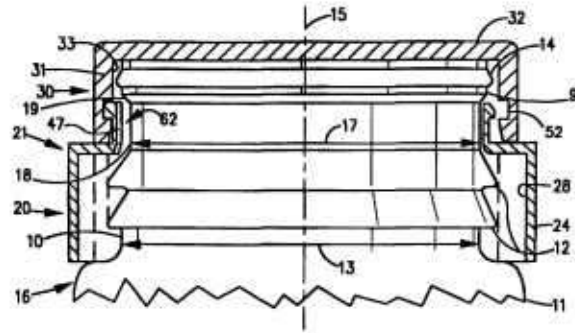
- PN - [CA2286635](#) A1 19981022
- PR - WO1998US06597 19980403; US19970835826 19970416
- AP - [CA19982286635](#) 19980403
- DT - I
- CCI - [B65D50/046](#)
- CI - B65D50/046 (EP)
- PA - WEATHERCHEM CORP [US]
- TI - **CHILD-RESISTANT SCREW-ON CAP AND BOTTLE**
- AB - A **child-resistant** bottle and screw-on **cap** combination that is relatively easy to open for elderly persons with limited dexterity. The **cap** (10) has a construction that is particularly suited for use with extrusion blow-molded bottles. The **cap** (10) has a pair of diametrically opposed lock levers (21). Each lock lever (21) has a finger engageable portion (32) and a bottle contacting portion (28) and is attached to the outer skirt (14) of the **cap** by a **hinge** (26). The bottle contacting portion (28) of the lock lever (21) engages locking surfaces (39) on the bottle.

**103/113** © EPODOC / EPO

PN - [CA2259436](#) A1 19980205  
 PNFP - CA2259436 C 20061219  
 PR - US19960689087  
 19960730; WO1997US13334  
 19970729  
 AP - [CA19972259436](#) 19970729  
 DT - I  
 CCI - [B65D50/045](#) ; [B65D55/16](#)  
 CI - B65D50/045 (EP)  
 - B65D55/16 (EP)  
 PA - (A1 C)  
 POLY SEAL CORP [US]  
 TI - (A1 C)  
**CHILD RESISTANT CLOSURE**  
 AB - (A1)

A **child resistant** closure including a container (16) and a **cap** (21). The container includes a body portion (11) defining a chamber, and a hollow neck (10) extending from the body portion. The **cap** is formed to fit around the neck and includes a base portion (20) and a **lid** portion (30) connected to the base portion with a **hinge** (60). At least one first engagement portion (42) extends from a lever portion (24) attached to the base portion, and is positioned to engage at least one second engagement portion (52) that is integrally formed in the **lid** portion. The engagement portions are located off set from a location diametrically opposite the **hinge**. The closure is in a locked position when the first engagement portion engages the second engagement portion. The closure is moved to an unlocked position when the lever portion is pushed inwardly to disengage the first portion from the second portion.

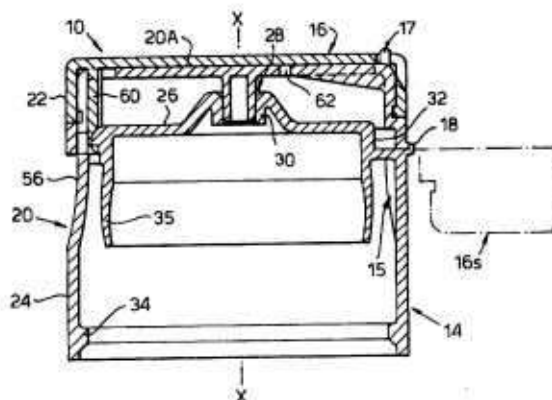
- (C)  
 A **child resistant** closure including a container (16) and a **cap** (21). The container includes a body portion (11) defining a chamber, and a hollow neck (10) extending



from the body portion. The **cap** is formed to fit around the neck and includes a base portion (20) and a **lid** portion (30) connected to the base portion with a **hinge** (60). At least one first engagement portion (42) extends from a lever portion (24) attached to the base portion, and is positioned to engage at least one second engagement portion (52) that is integrally formed in the **lid** portion. The engagement portions are located off set from a location diametrically opposite the **hinge**. The closure is in a locked position when the first engagement portion engages the second engagement portion. The closure is moved to an unlocked position when the lever portion is pushed inwardly to disengage the first portion from the second portion.

**104/113** © EPODOC / EPO

- PN - [CA2248780](#) A1 19971016
- PR - GB19960007473  
19960411; GB19960021563  
19961016
- AP - [CA19972248780](#) 19970318
- DT - I
- CCI - [B65D47/0838](#) ; [B65D50/045](#) ;  
[B65D50/061](#)
- CI - B65D47/0838 (EP)  
B65D50/045 (EP)  
B65D50/061 (EP)
- PA - CARNAUDMETALBOX HOLDINGS  
USA [US]
- TI - HINGED DISPENSING CLOSURE
- AB - A **child-resistant** dispensing closure is snap-engageable and freely rotatable on a container neck. The closure has body and **lid** portions (14, 14' and 16, 16') one of which has two parts capable of relative rotation. One of the two parts (20A, 22A') is attached to the other portion of the closure by an integral **hinge**



(18, 18') which enables the **lid** portion to be swung between closed and open positions as required for dispensing. A catch (68, 70 and 99, 97) between the **lid** and body portions is automatically engaged when the **lid** portion is closed. In order to subsequently release the catch for dispensing, it is necessary for the user to grasp the closure with both hands and rotate the relatively rotatable parts, possibly against the action of a return spring (64, 202, 100). The closure is intended for liquid products such as liquid soaps.

**105/113** © EPODOC / EPO

PN - [CA2180369](#) A1 19970104  
 PR - US19950497938 19950703  
 AP - [CA19962180369](#) 19960702  
 DT - I  
 PA - WEATHERCHEM CORP [US]  
 TI - TETHERED SAFETY SNAP **CAP**  
 AB - A tethered, **child resistant**, tamper evident closure for containers is provided which is particularly suited for containers of over-the-counter pharmaceuticals such as aspirin and the like. The closure includes a **cap**, a presson retaining ring, a **hinge**, and a tear strip. The **cap** has a snap which engages a protrusion of the container and allows rotation of the **cap** relative to the container but prevents removal of the **cap** from the container except at a **cap** release position. At the **cap** release position, the snap is in angular registration with a recess in the protrusion. The retaining ring has a grip which engages a protrusion of a the container and allows rotation of the retaining ring relative to the container but prevents removal of the retaining ring from the container. The **hinge** pivotally connects the **cap** to the retaining ring so that the **cap** is tethered to the container when the **cap** is removed from the container. The tear strip connects the **cap** to the retaining ring to provide tamper evidence and holds the **cap** coaxial with the retaining ring during automated assembly of the closure to the container. The **cap** and the retaining ring also have interengaging teeth which rotate the retaining ring in unison with the **cap** to the **cap** release position.

**106/113** © EPODOC / EPO

PN - [CA2012786](#) A1 19901003  
 PNFP - CA2012786 C 19941018  
 PR - US19890333067 19890403; US19890436565 19891114  
 AP - [CA19902012786](#) 19900323  
 DT - I  
 CCI - [B65D50/045](#) ; [E05B65/0014](#)

CCA - [Y10T292/0902](#)

CI - B65D50/045 (EP)  
- E05B65/0014 (EP)

CA - Y10T292/0902 (EP, US)

PA - (C)  
NORWICH EATON PHARMA [US]

TI - (A1 C)  
**CHILD RESISTANT** CONTAINER FOR STORING HAZARDOUS MATERIALS

AB - (C)  
A **child resistant** box which is composed of a base, a **lid** and a **hinge** connecting the base and **lid** together. A latching mechanism is located on each of the two sides of the box for releasably retaining the **lid** to the base. The box can be moved between open, intermediate, and closed positions. The box also includes a means for biasing the **lid** from the intermediate position toward the closed position. To open the box the **lid** is compressed to the intermediate position. In this intermediate position, the latching mechanism may be disengaged by exerting manual pressure thereon toward the center of the box. Once pressure is exerted simultaneously on both latching mechanisms the **lid** is released and the biasing means moves the **lid** at least partially toward the open position. The operation of this box is particularly well-suited for the elderly. Although this **child resistant** box can house virtually anything, it is particularly well suited for housing a set of blister cards which include a plurality of medicaments to be taken at different times during a therapeutic regimen.

107/113 © EPODOC / EPO

PN - [CA1334953](#) C 19950328

PR - US19890302850 19890127

AP - [CA19890607295](#) 19890802

DT - I

CCI - [B65D47/0838](#) ; [B65D50/045](#)

CCA - [B65D2251/1066](#) ; [B65D2255/20](#)

CI - B65D47/0838 (EP)  
- B65D50/045 (EP)

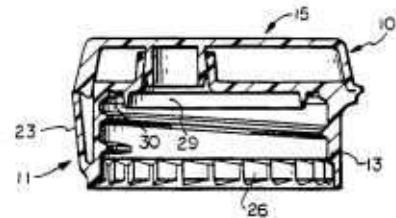
CA - B65D2251/1066 (EP)  
- B65D2255/20 (EP)

PA - OWENS ILLINOIS CLOSURE INC [US]

TI - **CHILD RESISTANT** DISPENSING CLOSURE

AB - A **child resistant** dispensing closure comprising a first part having a base wall and a peripheral skirt adapted to be threaded onto a container. The peripheral skirt includes interengaging portions that engage portions of the container to prevent removal from the container. The closure also includes a second part or **lid**

FIG. 4



connected to the first part by an integral **hinge** and having a base wall, peripheral skirt and a closing portion adapted to extend into a nozzle on the base wall of the first part when the second part is moved into overlying relationship to the first part. Snap lugs on the second part engage bead segments on the first part to hold the second part in closed position. The diameter of the skirt of the first part includes a radial flange that extends circumferentially about most of the periphery of the skirt. The flange is connected integrally to an outer radially deflectable wall panel. The skirt of the second part is smaller than the diameter of the flange so that the flange projects radially beyond the **lid** skirt and the **lid** skirt cannot be raised readily. A shoulder projects axially from the flange to center the **lid** and support the skirt against radial deflection. By pressing the deflectable wall panel radially inwardly the panel engages an axial rib on the skirt of the **lid** camming the skirt of the **lid** upwardly and exposing it so that it may be opened.

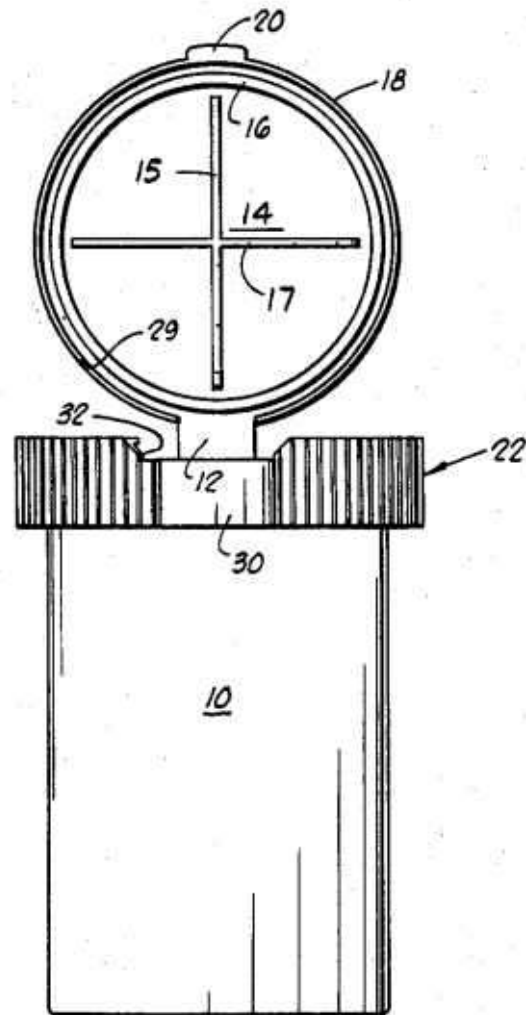
**108/113** © EPODOC / EPO

|     |                                                                                        |   |
|-----|----------------------------------------------------------------------------------------|---|
| PN  | - <a href="#">CA1309063</a> C 19921020                                                 | . |
| PR  | - US19880206163 19880610                                                               |   |
| AP  | - <a href="#">CA19880575333</a> 19880822                                               |   |
| DT  | - I                                                                                    |   |
| CCI | - <a href="#">B65D50/045</a> ; <a href="#">B65D55/02</a>                               |   |
| CCA | - <a href="#">B65D2255/20</a>                                                          |   |
| CI  | - B65D50/045 (EP)                                                                      |   |
|     | - B65D55/02 (EP)                                                                       |   |
| CA  | - B65D2255/20 (EP)                                                                     |   |
| PA  | - OWENS ILLINOIS CLOSURE INC [US]                                                      |   |
| TI  | - <b>CHILD RESISTANT HINGE TOP CLOSURE</b>                                             |   |
| AB  | - A hinged dispensing closure of unitary molded construction is disclosed which may be |   |

readily opened by an adult using one hand. A narrow slot of short length is molded near the periphery of the top wall of the snap-hinged cover **cap** opposite its hinged connection to the main closure. The sidewall of the cover **cap** includes axially extending parallel score lines from near its skirt edge to the ends of the slot to define a tab. Pressing by the thumb on the tab while holding the package in the same hand ruptures the scores and deflects the tab inwardly for ready access to an exposed edge of the formed slot; and pressure on the edge opens the cover **cap**. The deflected tab is held by an internal cam wall inwardly of the slot, which indicates that the package is opened when the tab is held in this deflected position. A second embodiment provides a hook and latch locking means between the main closure and cover **cap** opposite the **hinge**. This lock may be disengaged by the thumb for unlatching the cover **cap** by depressing its skirt wall at the hook and latch location and opening the cover **cap** with one hand. The main closure is threaded on the container. The main closure and container are provided with cooperating ratchet teeth to render the closure on the container a safety closure against accidental removal by children.

**109/113** © EPODOC / EPO

- PN - [CA1176603](#) A 19841023
- PR - US19820336906 19820104
- AP - [CA19820418749](#) 19821230
- DT - I
- CCI - [B65D50/06](#)
- CI - B65D50/06 (EP)
- PA - CARLISLE CORP
- TI - **CHILD RESISTANT CONTAINER AND CLOSURE**
- AB - A container and closure assembly which is **resistant** to opening by a **child**, and which includes a container having a cylindrical neck portion having an annular safety ring key or key way therearound. A safety ring is rotatably mounted on the neck portion and is retained against axial movement thereon by the key or key way. The safety ring defines an access tab relief, and also an access tab safety recess adjacent the access tab relief. A closure **cap** which is dimensioned to fit over and close the opening at the upper end of the neck portion is hinged to the neck portion for pivotation between an open and closed position. The closure **cap** carries an access tab at a location spaced around the **cap** from the **hinge** by which the **cap** is



connected to the neck portion.

110/113 © EPODOC / EPO

PN - [CA1128006](#) A 19820720

PR - US19790061832  
19790730; US19790108642 19791231

AP - [CA19800357328](#) 19800730

DT - I

CCI - [B65D47/0838](#) ; [B65D47/0842](#) ;  
[B65D50/045](#)

CCA - [B65D2251/1016](#) ; [B65D2255/20](#)

CI - B65D47/0838 (EP)

- B65D47/0842 (EP)

- B65D50/045 (EP)

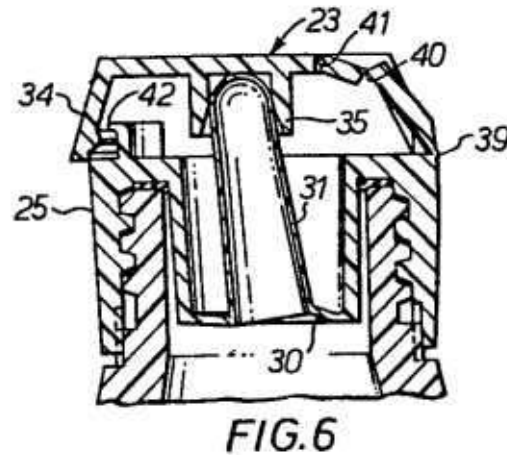
CA - B65D2251/1016 (EP)

- B65D2255/20 (EP)

PA - SUNBEAM PLASTICS CORP

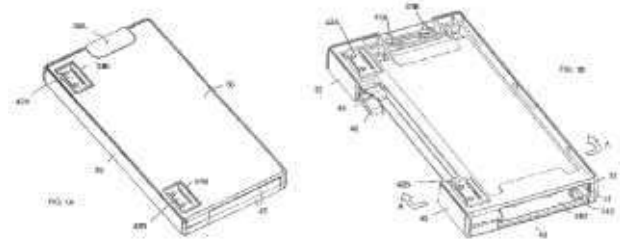
TI - **CHILD-RESISTANT** DISPENSING  
CLOSURE

AB - A **child-resistant** dispensing closure fabricated from resilient material has an inverted cup-shaped body, an axially protruding nozzle and a saucer-shaped **lid** for closing the nozzle. The **lid** is connected to the body by a flexible **hinge** which is unitary with the body and the **lid** and which is located at one edge of the body. There are cooperating means for retaining the **lid** in closed position overlying the body and the nozzle, the catch means being located diametrically opposite the **hinge**. The **lid** has a maximum diameter no greater than the diameter of the top of the body. The catch means may be at least partially disengaged by moving the **lid** laterally relative to the body so that a portion of the **lid** protrudes radially beyond the top of the body. By grasping the protruding portion of the **lid**, the **lid** then may be swung angularly away from closing position.



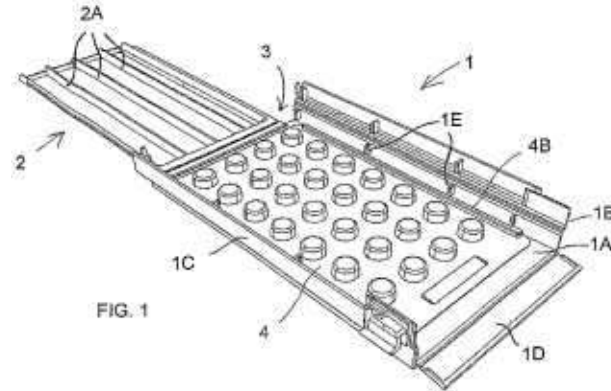
**111/113** © EPODOC / EPO

- PN - [WO2009013485](#) A1 20090129
- PNFP - WO2009013485 A8 20100311
- PR - GB20070014188 20070720
- AP - [WO2008GB02506](#) 20080721
- DT - \*, Rep
- CT - |EP| ISR (A1)  
[US2004226853](#) A1 00000000 [X]  
 (INTINI THOMAS D [CA])  
 [X] 1-6  
 \* paragraph [0040] - paragraph [0043]; figures 3-9 \*;  
[US3907103](#) A 00000000 [X] (SHAW HOWARD G)  
 [X] 1,2,5  
 \* column 3, line 19 - line 52; figures 2-8 \*;  
[US3923180](#) A 00000000 [X] (FIELDS MACK ROBERT)  
 [X] 1,2,5,6  
 \* column 5, line 16 - line 30; figures 1-11 \*;  
[US2004089668](#) A1 00000000 [X]  
 (LAMBELET LAWRENCE E [US]  
 LAMBELET JR LAWRENCE E [US])  
 [X] 1-3  
 \* paragraph [0028] - paragraph [0031]; figures 1-11 \*;  
[US3954179](#) A 00000000 [A]  
 (WARMATH JOHN G)  
 [A] 1  
 \* the whole document \*;  
[US3968880](#) A 00000000 [X]  
 (OSTROWSKY EFREM M)  
 [X] 7-12  
 \* column 5, line 64 - column 6, line 29; figures 1,10-12 \*;  
[GB2138780](#) A 00000000 [X]  
 (SUNBEAM PLASTICS CORP)  
 [X] 7-9,11,12  
 \* page 1, line 117 - page 2, line 20; figure 2 \*;  
[CA2252215](#) A1 00000000 [A]  
 (CORNIES KEITH [CA]; MORRISON BILL [CA])  
 [A] 7-12  
 \* page 10 - page 13 \*
- CCI - [B65D43/162](#) ; [B65D50/066](#) ;  
[B65D83/0463](#)
- CCA - [B65D2215/04](#) ; [B65D2215/08](#)



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CI | <ul style="list-style-type: none"> <li>- B65D43/162 (EP, GB)</li> <li>- B65D50/066 (EP, GB)</li> <li>- B65D83/0463 (EP, GB)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CA | <ul style="list-style-type: none"> <li>- B65D2215/04 (EP, GB)</li> <li>- B65D2215/08 (EP, GB)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PA | <ul style="list-style-type: none"> <li>- (A1)<br/>MEADWESTVACO CORP [US];<br/>FARRAR PETER [GB]; FRASER<br/>ANTHONY HENRY JOSEPH [GB]</li> <li>- (A8)<br/>MEADWESTVACO CORP [US];<br/>FRASER ANTHONY HENRY JOSEPH<br/>[GB]; FARRAR PETER [GB]</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TI | <ul style="list-style-type: none"> <li>- (A1 A8)<br/>CONTAINER</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AB | <ul style="list-style-type: none"> <li>- (A1 A8)<br/>A container with <b>child-resistant</b><br/>fastening means, the container<br/>comprising base (31), a <b>lid</b> (32),<br/>and a <b>hinge</b> (33) connecting the<br/>base (31) to the <b>lid</b> (32) and about<br/>which the <b>lid</b> (32) is movable<br/>between an open position and a<br/>closed position, the fastening<br/>means comprising first<br/>interlocking means (31A, 32A) for<br/>resisting opening movement of<br/>the <b>lid</b> (31) in a first direction (D)<br/>relative to the base portion (31)<br/>and which is releasable upon<br/>relative movement between<br/>the <b>lid</b> (32) and base (31) in a<br/>second direction (B), and second<br/>interlocking means (31B) which<br/>resist relative movement of<br/>the <b>lid</b> (32) and base (31) in the<br/>second direction (B) and which is<br/>releasable upon pressure (C)<br/>being applied to release means<br/>(42A, 42B) in two spaced apart<br/>locations.</li> </ul> |

PN - [WO2009013471](#) A1 20090129  
 PR - GB20070014189 20070720  
 AP - [WO2008GB02476](#) 20080721  
 DT - \*; Rep  
 CT - |EP| ISR (A1)  
       [WO2004035421](#) A1 00000000 [XA]  
       (GRUENENTHAL GMBH [DE];  
       DROUGHT NICHOLAS ANDREW  
       MURRAY [GB]; BLATCHER S)  
       [X] 1-11,13-25  
       \* the whole document \*  
       [A] 12;  
       [EP1762508](#) A2 00000000 [A]  
       (MANREX LTD [CA])  
       [A] 1  
       \* the whole document \*  
 CCI - [A61J1/035](#) ; [A61J7/04](#) ;  
       [B65D83/0463](#)  
 CCA - [A61J2205/30](#)  
 CI - A61J1/035 (EP)  
       A61J7/04 (EP)  
       B65D83/0463 (EP, GB)  
 CA - A61J2205/30 (EP)  
 PA - MEADWESTVACO CORP [US] ;  
       FRASER ANTHONY HENRY JOSEPH  
       [GB]; FARRAR PETER [GB]  
 TI - DISPENSER  
 AB - A dispenser for housing at least  
       one blister pack (comprising a  
       generally planar face on one  
       side thereof and one or more  
       blisters on the opposite side  
       thereof), the dispenser  
       comprising a base portion, a **lid**  
       portion, and a **hinge** portion  
       connecting the base portion to  
       the **lid** portion and about which  
       the **lid** portion and/or base  
       portion are movable between an  
       open configuration and a closed  
       configuration, e.g. in the form of  
       an openable clamshell. The  
       base portion and/or the **lid**  
       portion has locating means for  
       locating a blister pack within the  
       dispenser and the locating  
       means are adapted to enable  
       sliding of the blister pack  
       relative thereto in a direction



substantially parallel to said planar face thereof between a storage position and at least one dispensing position. Preferred embodiments of the dispenser have 'senior-friendly' features and **child resistant** features.

**113/113** © EPODOC / EPO

PN - [EP1958884](#) A1 20080820

PNFP - EP1958884 B1 20091118

PR - EP20040783117 20040903; US20030500428P 20030905; US20040538596P 20040123

AP - [EP20080008905](#) 20040903

DT - \*\*

CT - || STSE (A1)  
[US3860135](#) A 19750114 [X] (YUNG MICHAEL A, et al)  
[X] 1-13  
\* abstract \*  
\* column 3, line 15 - column 5, line 59 \*;  
[EP0666220](#) A1 19950809 [X] (MCKECHNIE UK LTD [GB])  
[X] 1-4,7-13  
\* abstract \*  
\* column 3, line 27 - column 4, line 44 \*;  
[US4783056](#) A 19881108 [AD] (ABRAMS ROBERT S [US])  
[AD] 8-10  
\* figure 5; claim 1 \*  
\* column 3, paragraph 1 - column 4, paragraph 1 \*;  
[US6080350](#) A 20000627 [AD] (HEKAL IHAB M [US])  
[AD] 11,12  
\* abstract \*

CCI - [B65D50/045](#) ; [B65D50/069](#)

CCA - [B65D2215/02](#)

CI - B65D50/045 (EP)

- B65D50/069 (EP)

CA - B65D2215/02 (EP)

PA - (A1 B1)  
CSP TECHNOLOGIES INC [US]

TI - (A1 B1)  
**Cap** assembly having **child resistant** safety features

AB - (A1)  
A container and **cap** assembly contains a sliding part (82) in the **cap** (84). The sliding part (82) may be supplied separate from the container and **cap** assembly, allowing the user to determine if a **child-resistant** or non-**child resistant cap** is formed. In the **child resistant** embodiment, the sliding part (82) is configured within the **cap** (84) whereby at least a portion of the sliding part protrudes out from the **cap** in a location near or proximate to a **hinge** (40). To open the **cap**, the user applies sufficient force to the sliding part (82), pushing it in a direction away from the **hinge** (40) so that at least a portion the sliding part protrudes out of the portion of the **cap** that is substantially opposite the **hinge**. Then

the user applies a second sufficient force in an upward direction to open the **cap** (84).

[SS 8]

## Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 8] child and (resistant or proof) and (cap or lid) and closure and hinge and (tab or lip) and /ic (B65D)

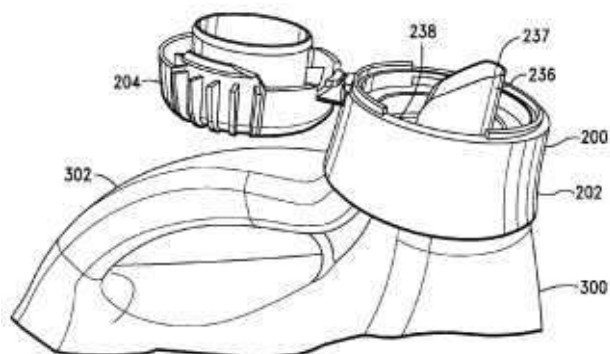
Results in EPODOC 16

[SS 9] ..li



1/16 © EPODOC / EPO

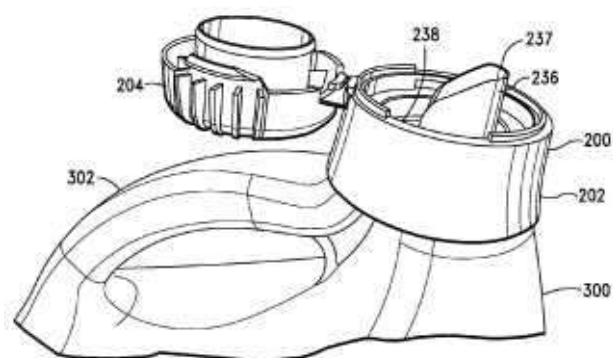
PN - [MX2013001894](#) A 20130405  
 PR - WO2011US48444  
 20110819; US20100860045 20100820  
 AP - [MX20130001894](#) 20110819  
 DT - I  
 CCI - [B65D47/06](#) ; [B65D47/0833](#)  
 CCA - [B65D2251/1016](#)  
 CI - B65D47/06 (EP)  
 - B65D47/0833 (EP)  
 CA - B65D2251/1016 (EP)  
 PA - CLOROX CO [US]  
 TI - **CHILD RESISTANT** FLIP-  
 TOP **CLOSURE** WITH POURING  
 SPOUT.  
 AB - Described is a handled bottle  
 having a flip top, **child-resistant**  
**closure** with a pour spout. An  
 exemplary bottle comprises a  
 container having a threaded neck  
 on the container top front  
 surface and having an enclosed  
 handle on the container top rear  
 surface wherein the neck  
 comprises a container outlet and  
 a separate handle inlet; a  
 dispensing **closure** comprising a  
 base member, a **cap** having a top  
 and sidewalls, and a **hinge**



connecting the base member and the **cap**, wherein the base member has a top wall with a depending outer concave flared sidewall and a depending intermediate wall having a pair of latches and a thread segment and connecting to an intermediate deck with a depending inner wall connecting to a lower deck having a beveled spout wherein the **cap** has a pair of tabs each having a **tab** wall connecting a **tab** lug that locks into one of the latches.

2/16 © EPODOC / EPO

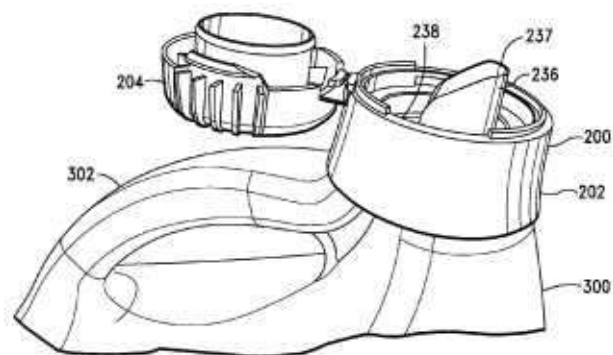
PN - [CA2808419](#) A1 20120223  
 PR - US20100860045  
 20100820; WO2011US48444  
 20110819  
 AP - [CA20112808419](#) 20110819  
 DT - I  
 CCI - [B65D47/06](#) ; [B65D47/0833](#)  
 CCA - [B65D2251/1016](#)  
 CI - B65D47/06 (EP)  
 - B65D47/0833 (EP)  
 CA - B65D2251/1016 (EP)  
 PA - CLOROX CO [US]  
 TI - **CHILD RESISTANT FLIP-  
 TOP CLOSURE WITH POURING  
 SPOUT**  
 AB - Described is a handled bottle having a flip top, **child-resistant closure** with a pour spout. An exemplary bottle comprises a container having a threaded neck on the container top front surface and having an enclosed handle on the container top rear surface wherein the neck comprises a container outlet and a separate handle inlet; a dispensing **closure** comprising a base member, a **cap** having a top and sidewalls, and a **hinge** connecting the base member and the **cap**, wherein the base member has a top wall with a



depending outer concave flared sidewall and a depending intermediate wall having a pair of latches and a thread segment and connecting to an intermediate deck with a depending inner wall connecting to a lower deck having a beveled spout wherein the **cap** has a pair of tabs each having a **tab** wall connecting a **tab** lug that locks into one of the latches.

3/16 © EPODOC / EPO

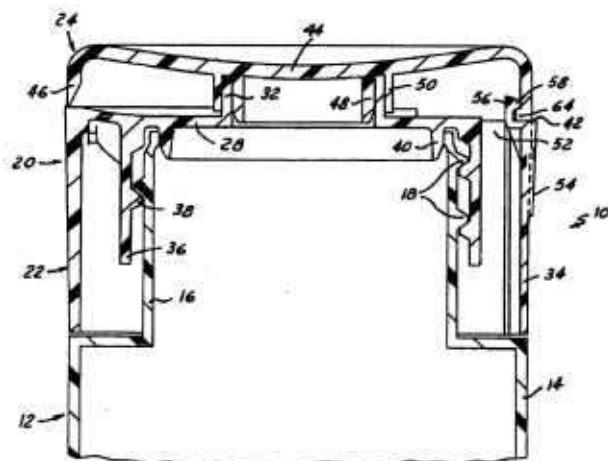
PN - [WO2012024601](#) A1 20120223  
 PR - US20100860045 20100820  
 AP - [WO2011US48444](#) 20110819  
 DT - \*\*  
 CT - *[US]* *ISR (A1)*  
[US2008110849](#) A1 00000000 [Y]  
*(WACHSBERG)*;  
[US2004074919](#) A1 00000000 [Y]  
*(KNICKERBOCKER)*;  
[US4890770](#) A 00000000 [Y] *(HAGA ET AL)*;  
[US2003201283](#) A1 00000000 [Y]  
*(BRANSON ET AL)* ;  
[US2005205607](#) A1 00000000 [Y]  
*(HIERZER ET AL)* ;  
[US4804119](#) A 00000000 [A]  
*(GOODALL)*  
 CCI - [B65D47/06](#) ; [B65D47/0833](#)  
 CCA - [B65D2251/1016](#)  
 CI - B65D47/06 (EP)  
 - B65D47/0833 (EP)  
 CA - B65D2251/1016 (EP)  
 PA - CLOROX CO [US]; WEBSTER JUDITH [US] ; AZELTON KERRY [US]; TOMKINS STEVE JAMES [US]; ROY BRANDON C [US]; KRAMMER CHRISTIAN [US]; HLAVACEK THOMAS [AT]; ZAUSER THOMAS [AT]  
 TI - **CHILD RESISTANT** FLIP-  
 TOP **CLOSURE** WITH POURING  
 SPOUT  
 AB - Described is a handled bottle having a flip top, **child-resistant closure** with a pour spout. An



exemplary bottle comprises a container having a threaded neck on the container top front surface and having an enclosed handle on the container top rear surface wherein the neck comprises a container outlet and a separate handle inlet; a dispensing **closure** comprising a base member, a **cap** having a top and sidewalls, and a **hinge** connecting the base member and the **cap**, wherein the base member has a top wall with a depending outer concave flared sidewall and a depending intermediate wall having a pair of latches and a thread segment and connecting to an intermediate deck with a depending inner wall connecting to a lower deck having a beveled spout wherein the **cap** has a pair of tabs each having a **tab** wall connecting a **tab** lug that locks into one of the latches.

4/16 © EPODOC / EPO

- PN - [NZ554554 A](#) 20090925
- PR - WO2005US33374  
20050920; US20040975689 20041027
- AP - [NZ20050554554](#) 20050920
- DT - I
- CCI - [B65D47/0804](#) ; [B65D50/046](#)
- CI - B65D47/0804 (EP)  
- B65D50/046 (EP)
- PA - REXAM CLOSURE SYSTEMS INC
- TI - **Child-resistant** dispensing **closure**,  
package and method of  
manufacture
- AB - A **child-resistant** dispensing **closure**  
includes a base (22) having a  
deck (28), a dispensing opening  
(30) in the deck and a peripheral  
skirt (34) extending from the  
deck. A **lid** (24) is integrally  
hinged to the base for movement  
between a closed position  
overlying the deck and an open  
position spaced from the deck.



The base has an opening (52) in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a **tab** (56) extends from the skirt adjacent to the opening. The **lid** has a lug (64) for snap-coupling over an exterior of the **tab** in the closed position of the **lid**. The peripheral skirt is resiliently flexibly moveable into the opening to move the **tab** out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the open position.

5/16 © EPODOC / EPO

PN - [MX2007004866](#) A 20070611

PR - US20040975689  
20041027; WO2005US33374  
20050920

AP - [MX20070004866](#) 20050920

DT - I

CCI - [B65D47/0804](#) ; [B65D50/046](#)

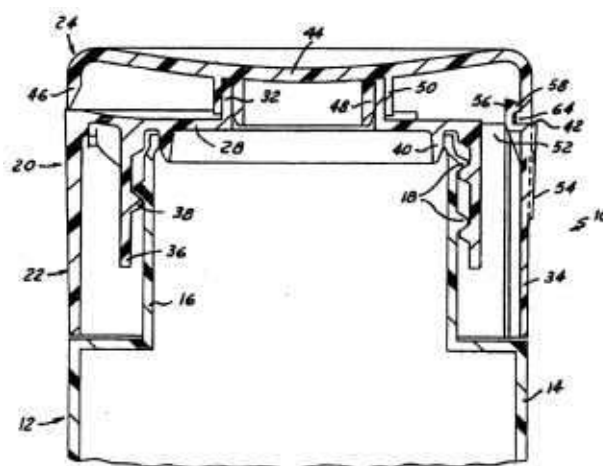
CI - B65D47/0804 (EP)

- B65D50/046 (EP)

PA - OWENS ILLINOIS CLOSURE INC [US]

TI - **CHILD-RESISTANT**  
DISPENSING **CLOSURE**, PACKAGE  
AND METHOD OF MANUFACTURE.

AB - A **child-resistant** dispensing **closure** includes a base (22) having a deck (28), a dispensing opening (30) in the deck and a peripheral skirt (34) extending from the deck. A **lid** (24) is integrally hinged to the base for movement between a closed position overlying the deck and an open position spaced from the deck. The base has an opening (52) in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a **tab** (56) extends from the skirt adjacent to the opening. The **lid** has a lug (64) for snap-coupling over an exterior of the **tab** in the closed position of the **lid**. The peripheral skirt is

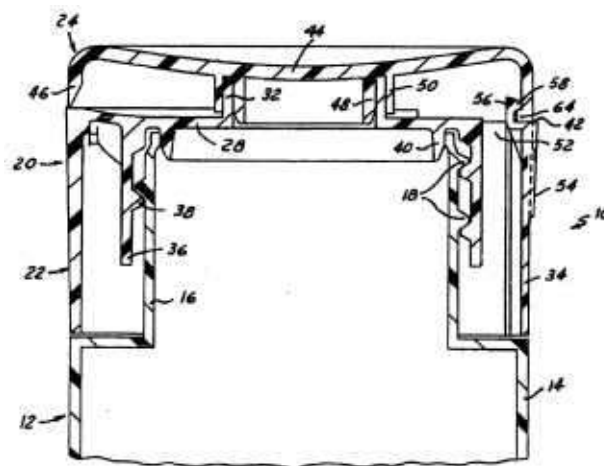


resiliently flexibly moveable into the opening to move the **tab** out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the open position.

6/16 © EPODOC / EPO

PN - [WO2006049713](#) A2 20060511  
 PNFP - WO2006049713 A3 20060608  
 PR - US20040975689 20041027  
 AP - [WO2005US33374](#) 20050920  
 DT - \*\*  
 CT - [EP] ISR (A3)  
[US4629081](#) A 00000000 [X]  
 (MCLAREN ET AL)  
 [X] 1,3-5,14,15  
 \* column 1, line 59 - column 2, line 8  
 \*  
 \* column 2, line 16 - line 22; figure -  
 \*;  
[US5860543](#) A 00000000 [X]  
 (DECELLES ET AL)  
 [X] 1,3,4,14,15  
 \* column 5, line 11 - line 28; figure -  
 \*;  
[EP0379775](#) A1 00000000 [A]  
 (OWENS-ILLINOIS CLOSURE INC.,)  
 [A] 1,10  
 \* abstract \*;  
[US4209100](#) A 00000000 [A] (UHLIG,  
 ALBERT R)  
 [A] 10,13  
 \* abstract \*;  
[US5579957](#) A 00000000 [A]  
 (GENTILE ET AL)  
 [A] 1,9  
 \* column 3, line 54 - line 55 \*  
 \* column 4, line 9 - line 13; figure - \*;  
[EP0289111](#) A2 00000000 [A]  
 (POLYTOP CORPORATION)  
 [A] 1,9,10  
 \* abstract \*

CCI - [B65D47/0804](#) ; [B65D50/046](#)  
 CI - B65D47/0804 (EP)  
 - B65D50/046 (EP)  
 PA - (A2 A3)  
 OWENS ILLINOIS CLOSURE INC [US]  
 ; ROBINSON PHILIP J [US]



- TI - (A2 A3)  
**CHILD-RESISTANT**  
DISPENSING **CLOSURE**, PACKAGE  
AND METHOD OF MANUFACTURE
- AB - (A2 A3)  
A **child-resistant** dispensing **closure** includes a base (22) having a deck (28), a dispensing opening (30) in the deck and a peripheral skirt (34) extending from the deck. A **lid** (24) is integrally hinged to the base for movement between a closed position overlying the deck and an open position spaced from the deck. The base has an opening (52) in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a **tab** (56) extends from the skirt adjacent to the opening. The **lid** has a lug (64) for snap-coupling over an exterior of the **tab** in the closed position of the **lid**. The peripheral skirt is resiliently flexibly moveable into the opening to move the **tab** out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the open position.

7/16 © EPODOC / EPO

- PN - [US6296130](#) B1 20011002
- PR - US19990314372 19990519; US20000717329 20001120
- AP - [US20000717329](#) 20001120
- DT - \*; Rep
- CT - || STSE (B1)  
[US3399796](#) A 00000000 [ ];  
[US3612323](#) A 00000000 [ ];  
[US3698584](#) A 00000000 [ ];  
[US3722727](#) A 00000000 [ ];  
[US3805987](#) A 00000000 [ ];  
[US3826395](#) A 00000000 [ ];  
[US3831797](#) A 00000000 [ ];  
[US3841514](#) A 00000000 [ ];  
[US3891110](#) A 00000000 [ ];  
[US3895730](#) A 00000000 [ ];  
[US4172533](#) A 00000000 [ ];  
[US4326649](#) A 00000000 [ ];

[US4401225](#) A 00000000 [ ];  
[US4413742](#) A 00000000 [ ];  
[US4479585](#) A 00000000 [ ];  
[US4500006](#) A 00000000 [ ];  
[US4687112](#) A 00000000 [ ];  
[US4752013](#) A 00000000 [ ];  
[US4752014](#) A 00000000 [ ];  
[US5213223](#) A 00000000 [ ];  
[US5238130](#) A 00000000 [ ];  
[US5449077](#) A 00000000 [ ];  
[US5603421](#) A 00000000 [ ];  
[US5671853](#) A 00000000 [ ];  
[US5722546](#) A 00000000 [ ];  
[US5803287](#) A 00000000 [ ];  
[US5908125](#) A 00000000 [ ];  
[US5915576](#) A 00000000 [ ];  
[US6039196](#) A 00000000 [ ];  
[US6047840](#) A 00000000 [ ];  
[EP0369166](#) A2 00000000 [ ];  
[GB2108095](#) A 00000000 [ ]

- CCI - [B65D50/046](#)
- CI - B65D50/046 (EP)
- PA - WEATHERCHEM CORP [US]
- TI - Anti back off screw on **closure**
- AB - Screw on caps for bottles that have an anti back off feature formed on a hinged **tab** of the **cap** engaging detent teeth below the threads on the bottle. The **hinge** has a unique configuration that enables the **tab** to snap into and hold a gripping position while avoiding temporary distortion or creep. The detent teeth are particularly suited for use with blow molded bottles and are capable of restraining a **cap** within a small angle of a fully tightened position to avoid any significant back off and potential leakage. In one embodiment, the anti back off feature is provided in a **child resistant cap** while in another embodiment this feature is provided in a simpler continuous thread **cap**.

PN - [US4385706](#) A 19830531

PR - US19820336906 19820104

AP - [US19820336906](#) 19820104

DT - \*; Rep

CT - || STSE (A)  
[US3469725](#) A 00000000 [ ];  
[US3584760](#) A 00000000 [ ];  
[US3612322](#) A 00000000 [ ];  
[US3667637](#) A 00000000 [ ];  
[US3848780](#) A 00000000 [ ];  
[US3863797](#) A 00000000 [ ];  
[US3966082](#) A 00000000 [ ]

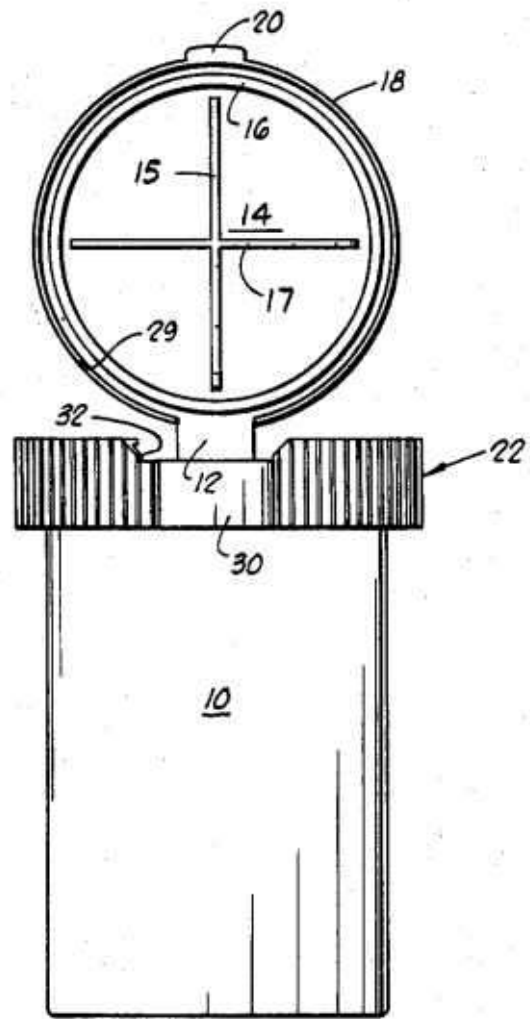
CCI - [B65D50/06](#)

CI - B65D50/06 (EP)

PA - CARLISLE CORP

TI - **Child resistant** container and **closure**

AB - A container and **closure** assembly which is **resistant** to opening by a **child**, and which includes a container having a cylindrical neck portion having an annular safety ring key or key way therearound. A safety ring is rotatably mounted on the neck portion and is retained against axial movement thereon by the key or key way. The safety ring defines an access **tab** relief, and also an access **tab** safety recess adjacent the access **tab** relief. A **closure cap** which is dimensioned to fit over and close the opening at the upper end of the neck portion is hinged to the neck portion for pivotation between an open and closed position. The **closure cap** carries an access **tab** at a location spaced around the **cap** from the **hinge** by which the **cap** is connected to the neck portion.



PN - [KR20070070230](#) A 20070703

PR - US20040975689 20041027

AP - [KR20077011594](#) 20070522

DT - I

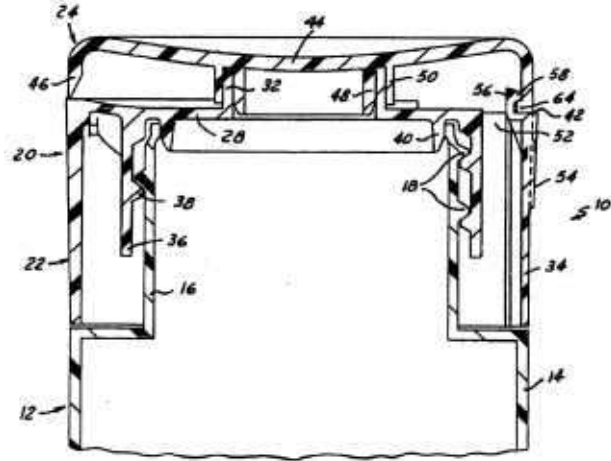
CCI - [B65D47/0804](#) ; [B65D50/046](#)

CI - B65D47/0804 (EP)  
- B65D50/046 (EP)

PA - OWENS ILLINOIS CLOSURE INC [US]

TI - **CHILD-RESISTANT**  
DISPENSING **CLOSURE**, PACKAGE  
AND METHOD OF MANUFACTURE

AB - A **child-resistant** dispensing **closure** includes a base (22) having a deck (28), a dispensing opening (30) in the deck and a peripheral skirt (34) extending from the deck. A **lid** (24) is integrally hinged to the base for movement between a closed position overlying the deck and an open position spaced from the deck. The base has an opening (52) in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a **tab** (56) extends from the skirt adjacent to the opening. The **lid** has a lug (64) for snap-coupling over an exterior of the **tab** in the closed position of the **lid**. The peripheral skirt is resiliently flexibly moveable into the opening to move the **tab** out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the open position.



PN - [GB2269811](#) A 19940223

PNFP - GB2269811 B 19960313

PR - GB19920017932 19920822

AP - [GB19930007257](#) 19930407

DT - \*: Rep

CT - || STSE (A B)  
[GB2130996](#) A 00000000 [ ]

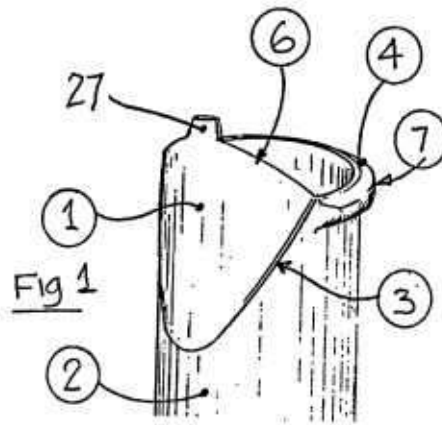
CCI - [B65D47/0809](#) ; [B65D47/2031](#) ;  
[B65D50/04](#)

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

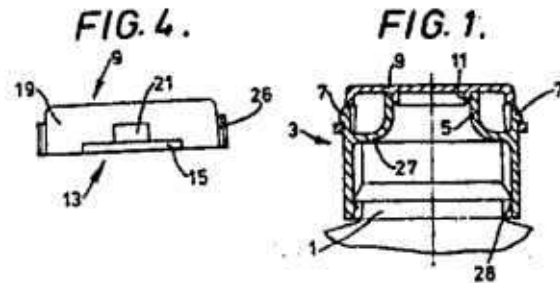
AB - (A)  
A **closure** comprises a flexible  
panel 1 attached to a container 2  
or **cap** by one or more hinges 3,  
the **hinge** or hinges defining an  
area which is smaller than the  
area of the panel and the panel  
being outwardly convex when in  
the open position and inwardly  
concave 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>

11/16 © EPODOC / EPO

PN - [GB1484517](#) A 19770901  
 PR - DE19742435337 19740723  
 AP - [GB19750022673](#) 19750523  
 DT - \*\*  
 CCI - [B65D50/045](#)  
 CI - B65D50/045 (EP)  
 PA - NOVA HANDELS AG  
 TI - **CHILD-PROOF CLOSURE**  
 AB - 1484517 **Child - proof** two - part closures NOVA-HANDELS AG 23 May 1975 [23 July 1974] 22673/75  
 Heading B8T A **child-proof closure** - comprises a skirt 3 whose upper dispensing opening 5 is closed by a **cap** 9 having interlocking engagement with the skirt. The **cap**, skirt or both are resilient such that at least one of them can be squeezed to release the interlocking parts. The **cap** may be hinged to the skirt and the latter may be permanently or removably installed on the neck 1 of the container to be closed, e.g. by being screwed, welded, glued or snap fitted. As shown the interlocking parts comprise outwardly facing, diametrically opposed skirt hooks 7 which engage in openings 13 which extend from an inner portion of a respective radially directed **cap tab** 15 to a point part way up the **cap**'s side. In the hinged embodiment, which may comprise a toggle type **hinge**, only one pair of interlocking parts need be used opposite the **hinge**. The **closure** may be circular, polygonal or oval and may have its **cap** provided with finger grips. The skirt may have areas which



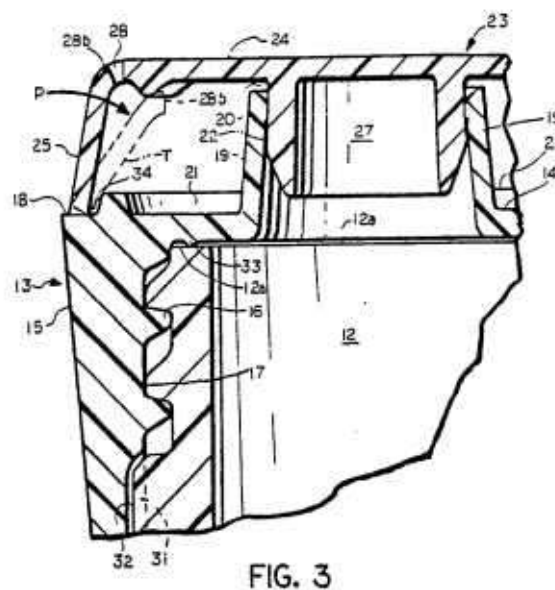
vary in strength to assist unlocking.

12/16 © EPODOC / EPO

- PN - [EP0345394](#) A1 19891213
- PNFP - EP0345394 B1 19931110
- PR - US19880206163 19880610
- AP - [EP19880307792](#) 19880823
- DT - \*\*
- CT - || STSE (A1)  
[FR2380195](#) A1 19780908 [X]  
 (CREATECHNIC PATENT AG [CH]);  
[US4209100](#) A 19800624 [YD] (UHLIG  
 ALBERT R [US]);  
[GB2166423](#) A 19860508 [Y]  
 (JOHNSEN & JORGENSEN);  
[US3702165](#) A 19721107 [A] (CAROW  
 ROBERT N, et al);  
[FR2591571](#) A1 19870619 [A]  
 (VEDDER & CO GMBH [DE]);  
[EP0006512](#) A1 19800109 [A] (CZECH  
 JOACHIM [DE]);  
[GB2101981](#) A 19830126 [A]  
 (SUNBEAM PLASTICS CORP [US]);  
[EP0208413](#) A2 19870114 [AD]  
 (OWENS ILLINOIS INC [US]);  
[US4752014](#) A 19880621 [AP] (HOUSE  
 RANDALL F [US], et al)

- CCI - [B65D50/045](#) ; [B65D55/02](#)
- CCA - [B65D2255/20](#)
- CI - B65D50/045 (EP)  
 - B65D55/02 (EP)
- CA - B65D2255/20 (EP)
- PA - (A1 B1)  
 OWENS ILLINOIS CLOSURE INC [US]
- TI - (A1 B1)  
**Child resistant hinge top closure.**
- AB - (A1)

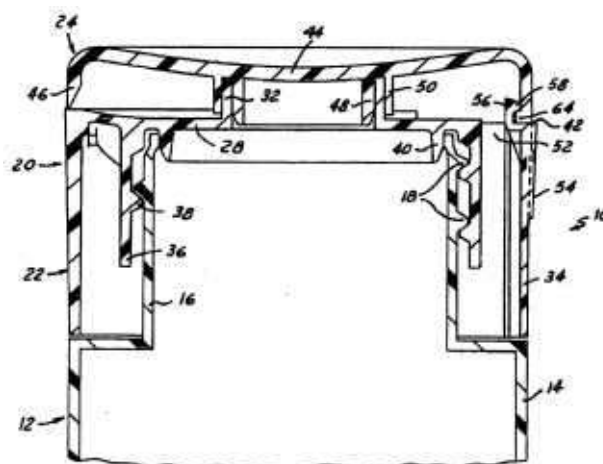
A hinged dispensing **closure** (11) of unitary molded construction is disclosed which may be readily opened by an adult using one hand. A narrow slot (28) of short length is molded near the periphery of the top wall of the snap-hinged cover **cap** (23) opposite its hinged connection to the main **closure**. The sidewall of the cover **cap** includes axially



extending parallel score lines (25a) from near its skirt edge to the ends of the slot to define a **tab** (T). Pressing by the thumb on the **tab** while holding the package in the same hand ruptures the scores and deflects the **tab** inwardly for ready access to an exposed edge of the formed slot; and pressure on the edge opens the cover **cap**. The deflected **tab** is held by an internal cam wall (29) inwardly of the slot, which indicates that the package is opened when the **tab** is held in this deflected position. A second embodiment provides a hook and latch locking (41,42) means between the main **closure** and cover **cap** opposite the **hinge**. This lock may be disengaged by the thumb for unlatching the cover **cap** by depressing its skirt wall at the hook and latch location and opening the cover **cap** with one hand. The main **closure** is threaded on the container. The main **closure** and container are provided with cooperating ratchet teeth (31,32) to render the **closure** on the container a safety **closure** against accidental removal by children.

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PN - [CN101052571](#) A 20071010  
 PNFP - CN101052571B B 20101201  
 PR - WO2005US33374  
 20050920; US20040975689 20041027  
 AP - [CN20058036912](#) 20050920  
 DT - I  
 CCI - [B65D47/0804](#) ; [B65D50/046](#)  
 CI - B65D47/0804 (EP)  
 - B65D50/046 (EP)  
 PA - (A)  
 OWENS ILLINOIS CLOSURE INC [US]  
 - (B)  
 OWENS ILLINOIS CLOSURE INC  
 TI - (A B)



**Child-resistant** dispensing **closure**,  
package and method of  
manufacture

AB

- (A B)

A **child-resistant** dispensing **closure** includes a base having a deck, a dispensing opening in the deck and a peripheral skirt extending from the deck. A **lid** is integrally hinged to the base for movement between a closed position overlying the deck and an open position spaced from the deck. The base has an opening in the deck adjacent to the peripheral skirt and opposite from the **hinge**, and a **tab** extends from the skirt adjacent to the opening. The **lid** has a lug for snap-coupling over an exterior of the **tab** in the closed position of the **lid**. The peripheral skirt is resiliently flexibly moveable into the opening to move the **tab** out of engagement with the lug on the **lid** skirt and thereby permit movement of the **lid** to the open position.

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PN

- [CH663396](#) A5 19871215

PR

- CH19840002486 19840521

AP

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DT

- \*; Rep

CCI

- [B65D47/0814](#) ; [B65D50/045](#)

CI

- B65D47/0814 (EP)

- B65D50/045 (EP)

PA

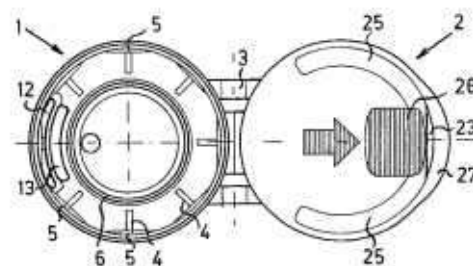
- ALFATECHNIC AG

TI

- **Child-resistant** plastic **hinge closure**

AB

- The **closure** consists of a bottom part (1) and a **cap** connected thereto via a **hinge** (3). The bottom part (1) has an inner sealing region which is defined by the sealing **lip** (6). Outside the sealing region in the bottom part (1) there is an opening (12, 13) inside which a radially movable latch is arranged. By pressure on



a pressure surface (26), a ram in the **cap** (2) displaces the latch in such a way that the **cap** (2) can now be opened whilst maintaining the pressure. <IMAGE>

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- PN - [CA1309063](#) C 19921020
- PR - US19880206163 19880610
- AP - [CA19880575333](#) 19880822
- DT - I
- CCI - [B65D50/045](#) ; [B65D55/02](#)
- CCA - [B65D2255/20](#)
- CI - B65D50/045 (EP)  
- B65D55/02 (EP)
- CA - B65D2255/20 (EP)
- PA - OWENS ILLINOIS CLOSURE INC [US]
- TI - **CHILD RESISTANT HINGE TOP CLOSURE**
- AB - A hinged dispensing **closure** of unitary molded construction is disclosed which may be readily opened by an adult using one hand. A narrow slot of short length is molded near the periphery of the top wall of the snap-hinged cover **cap** opposite its hinged connection to the main **closure**. The sidewall of the cover **cap** includes axially extending parallel score lines from near its skirt edge to the ends of the slot to define a **tab**. Pressing by the thumb on the **tab** while holding the package in the same hand ruptures the scores and deflects the **tab** inwardly for ready access to an exposed edge of the formed slot; and pressure on the edge opens the cover **cap**. The deflected **tab** is held by an internal cam wall inwardly of the slot, which indicates that the package is opened when the **tab** is held in this deflected position. A second embodiment provides a hook and latch locking means between the main **closure** and cover **cap** opposite the **hinge**. This lock may be disengaged by the thumb for unlatching the cover **cap** by depressing its skirt wall at the hook and latch location and opening the cover **cap** with one hand. The main **closure** is threaded on the container. The main **closure** and container are provided with cooperating ratchet teeth to render the **closure** on the container a safety **closure** against accidental removal by children.

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 PR - US19820336906 19820104  
 AP - [CA19820418749](#) 19821230  
 DT - I  
 CCI - [B65D50/06](#)  
 CI - B65D50/06 (EP)  
 PA - CARLISLE CORP  
 TI - **CHILD RESISTANT CONTAINER AND CLOSURE**  
 AB - A container and **closure** assembly which is **resistant** to opening by a **child**, and which includes a container having a cylindrical neck portion having an annular safety ring key or key way therearound. A safety ring is rotatably mounted on the neck portion and is retained against axial movement thereon by the key or key way. The safety ring defines an access **tab** relief, and also an access **tab** safety recess adjacent the access **tab** relief. A **closure cap** which is dimensioned to fit over and close the opening at the upper end of the neck portion is hinged to the neck portion for pivotation between an open and closed position. The **closure cap** carries an access **tab** at a location spaced around the **cap** from the **hinge** by which the **cap** is connected to the neck portion.

