



New connection on: : 12-04-2018 : 02:26:40 - Last disconnection on: : 11-04-2018 : 22:04:40

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 9] ..fi epodoc



Database: EPODOC

[EPODOC: SS 9] (method or process) and (container or recipient or bag) and flexible and (opening or nozzle or closure)

Results in EPODOC 3.192

[SS 10] * and PD<2014-07-16

Results in EPODOC 2.700

[SS 11] * and B65D/c/low

Results in EPODOC 930

[SS 12] * and (panel+ or side+ or web+)

Results in EPODOC 364

[SS 13] * and neck

Results in EPODOC 24

[SS 14] ..li



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PN - [US5947344](#) A 19990907

PR - US19970978506 19971125

AP - US19970978506 19971125

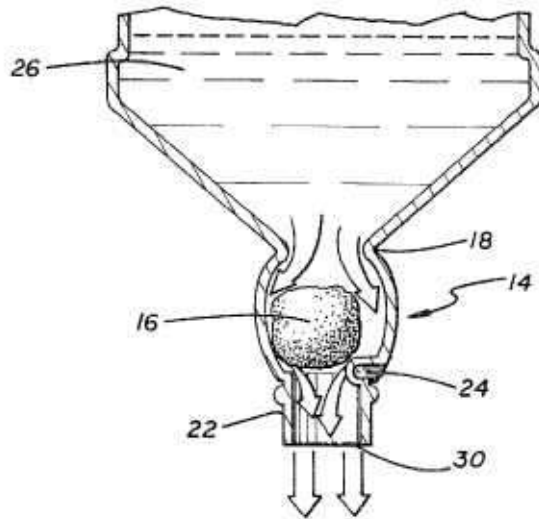
DT - *

CT - [US1735784](#) A []; [US2018552](#) A [];
[US2482384](#) A []; [US2755974](#) A [];
[US2957609](#) A []; [US3141579](#) A [];
[US3146919](#) A []; [US3179300](#) A [];
[US3184121](#) A []; [US3207374](#) A [];
[US3456650](#) A []; [US3756460](#) A [];
[US4022351](#) A []; [US4162749](#) A [];
[US4949857](#) A []; [US5000353](#) A [];
[US5133479](#) A []; [US5249714](#) A [];
[US5259535](#) A []; [US5370266](#) A [];
[WO8806129](#) A1 []

CCI - [B65D39/06](#) ; [B65D1/32](#)

TI - **Container** and **method** for dispensing motor oil and other liquids

AB - A spill-proof motor oil bottle has a **neck** and a fluid reservoir with **flexible sides**. The **neck** has a first narrow portion, a relatively wider chamber adjacent to the first narrow portion, and a second narrow portion adjacent to the chamber. The bottle has a fluid flow path defined from the fluid reservoir through the first narrow portion, the chamber and the second narrow portion. The fluid flow path interconnects the two narrow portions and the chamber. A **flexible** plug, which is usually made of a compressible closed cell



material, is compressed by and lodged within the first narrow portion to block the fluid flow path. The plug is adapted to dislodge from the first narrow portion into the chamber to open the fluid flow path when motor oil in the fluid reservoir displaces toward the **neck** of the bottle in response to a user squeezing the **sides** of the fluid reservoir. A **method** of dispensing a liquid with the bottle includes turning the **container** upside down, inserting at least a portion of the **neck** of the bottle into an engine **opening** into which the motor oil is to flow, and then squeezing the **flexible** portion of the fluid reservoir to dislodge the plug from the first narrow portion of the **neck** and into the chamber, thereby **opening** the fluid flow path so that oil flows out of the bottle and into the motor.

2/24 © EPODOC / EPO

PN - [US5878468](#) A 19990309
 PR - US19970786511
 19970121; US19960651071
 19960522
 AP - US19970786511 19970121
 DT - **
 CT - || STSE (A)
[US3557413](#) A 19710126 [
] (ENGLE WILLIAM H);
[US5070584](#) A 19911210 [] (DAIS
 BRIAN C [US], et al);
[US5138750](#) A 19920818 [
] (GUNDLACH DOUGLAS P [US], et
 al);
[US5140727](#) A 19920825 [] (DAIS
 BRIAN C [US], et al);
[US5273511](#) A 19931228 [
] (BOECKMAN HUGO [US]);
[US5307552](#) A 19940503 [] (DAIS



BRIAN C [US], et al);
[US5369847](#) A 19941206 [
] (NAYA MASAHIRO [JP], et al);
[US5403094](#) A 19950404 [
] (TOMIC MLSDOMIR [US]);
[US5462360](#) A 19951031 [
] (TILMAN PAUL A [US], et al);
[US5647100](#) A 19970715 [
] (PORCHIA JOSE [US], et al);
[EP0446760](#) A1 19910918 [
] (DOWBRANDS INC [US]);
[EP0510797](#) A1 19921028 [
] (MOBIL OIL CORP [US]);
[EP0647415](#) A1 19950412 [
] (REYNOLDS CONSUMER PROD
 [US])

- CCI - [B26F1/08](#) ; [B26F1/12](#) ;
[B29C65/02](#) ; [B65D33/255](#) ;
[B65D33/2558](#)
- CCA - [A44B19/16](#) ; [Y10S24/50](#) ;
[Y10S24/38](#) ; [Y10S24/39](#) ;
[Y10T24/45157](#) ; [Y10T24/45168](#) ;
[B31B70/8132](#)
- PA - REYNOLDS CONSUMER PROD [US]
- TI - **Closure** arrangement for
 reclosable **bag** and **method**
 thereof
- AB - A **flexible bag** includes a female
 profile and a male profile
 cooperatively arranged to inhibit
 interlock-blockage caused by
 small substances. The female
 profile includes first and second
 opposing legs. Each of the legs of
 the female profile includes a
 securing head at an extended
 end, a base adapted for
 attachment to the first **panel**
 section of the **bag**. A **neck** is
 between the securing head and
 the base. At least one of the first
 and second legs has a plurality
 of portions removed to form a
 first series of breaks. The
 portions removed include the
 securing head and the **neck**. The
 male profile is adapted for
 attachment to the second **panel**

section of the **bag**, and is arranged to interlock with the first and second legs. A **method** of constructing a **flexible bag**, and a **method** for using a **flexible bag** are also described.

3/24 © EPODOC / EPO

- PN - [US4106654](#) A 19780815
- PR - US19770776436 19770310
- AP - US19770776436 19770310
- DT - **
- CT - [AU164339](#) A []; [US2952374](#) A [];
[US3224617](#) A []; [US3592349](#) A [];
[US3815771](#) A []; [US3817418](#) A [];
[US3851784](#) A []; [US3901404](#) A [];
[US3923179](#) A []; [US3923184](#) A []
- CCI - [B65D41/0428](#) ; [B65D51/18](#)
- CCA - [B65D2251/0015](#) ;
[B65D2251/0078](#)
- PA - AMERICAN HOSPITAL SUPPLY CORP
- TI - **Container** with **side** sealing **closure** and **method** of forming the seal thereof
- AB - An improved seal between a **flexible** plastic **container** and its **closure** cap, wherein the cap is provided with an internal annular shoulder engaging the tapered **side** surface of an annular lip provided by the **neck** of the **container**. The shoulder bears inwardly against the lip with a force sufficient to flex that lip inwardly and maintain the same in a condition of stress. Ideally, the cap is formed of a plastic of limited heat shrinkability at autoclaving temperatures; therefore, heat sterilization of the sealed **container** and its contents



21

results in slight contraction of the cap and further increases the integrity of the seal. Where the **container** is formed of plastic material capable of softening slightly at autoclaving temperatures, the shoulder tends to penetrate the lip to a limited extent during such autoclaving to create an undercut in the lip. Later, when the contents of the **container** are to be used, removal of the **closure** produces an audible click as the shoulder is drawn from the undercut, thereby indicating that the seal has been broken.

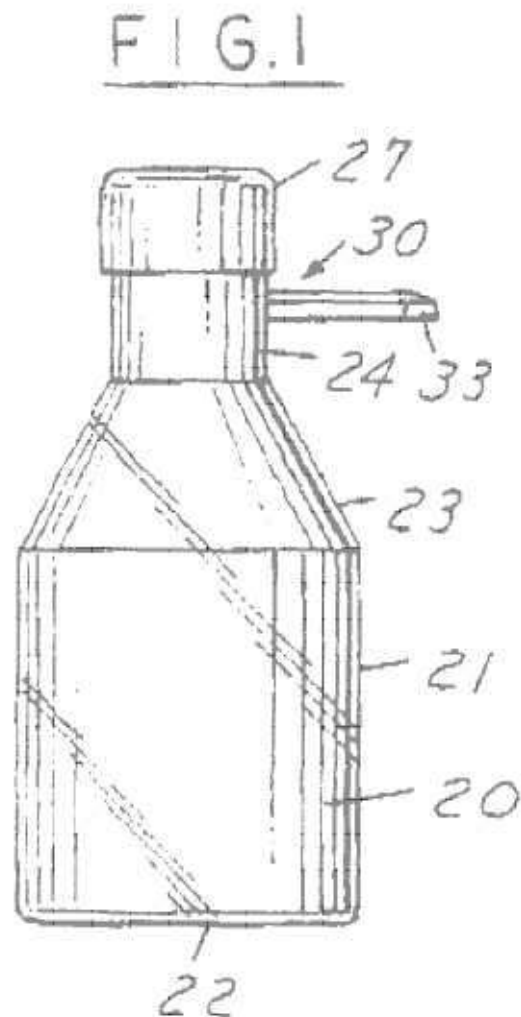
4/24 © EPODOC / EPO

PN - [US5212928](#) A 19930525
 PR - US19900621215
 19901130; US19900503281
 19900402
 AP - US19900621215 19901130
 DT - *
 CT - [US3891012](#) A []; [US4119124](#) A [];
[US4202384](#) A []; [US4321952](#) A [];
[US4371010](#) A []; [US4390047](#) A [];
[US4561475](#) A []; [US4901775](#) A []
 CCI - [B65D63/1081](#)
 CCA - [B65D2563/108](#)
 PA - EDGE TECHNOLOGY CORP [US]
 TI - **Closure** strap for **flexible** containers and apparatus and **method** for tensioning thereof
 AB - A **method** for drawing a bundling strap taut about the **neck** of a **flexible container** such as a bank **bag**, said bundling strap comprised of an elongated body portion having a plurality of serrations disposed



along **side** edges thereof adapted to mate in locking contact with corresponding teeth members projecting into an aperture in a head-end portion connected to said strap body, the **method** utilizing an automatic bundling strap tensioning apparatus characterized by a reversible motor means connected to a reciprocating means for gripping moveable between an extended position and a retracted position, comprised of the steps of: looping said bundling strap about the open **neck** of said **flexible container**; inserting the tail end of the strap through the aperture defined by the head-end portion of the strap; pulling said tail-end of said strap completely through said aperture until at least the first set of serrations of the strap body are engaged by said teeth members projecting upwardly into the interior of the aperture, thereby locking the strap body against reverse movement relative to said head-end portion; inserting the tail-end portion of the strap in said means for gripping; causing said means for gripping to move from the extended to the retracted position, thereby pulling the strap body further through said aperture and closing the **neck** of the **flexible container**.

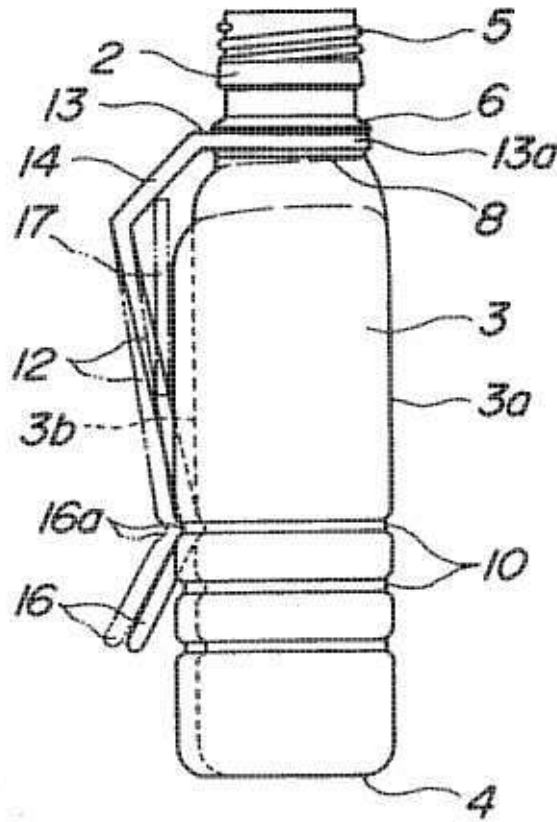
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 PR - US19950532130 19950922
 AP - US19950532130 19950922
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 [US4280247](#) A []; [US4280630](#) A [];
 [US4280859](#) A []; [US4311246](#) A [];
 [US4439393](#) A []; [US4604044](#) A [];
 [US4629598](#) A []; [US4830234](#) A [];
 [US5057266](#) A []; [US5275780](#) A [];
 [US5383779](#) A []; [US5487482](#) A [];
 [US5508076](#) A []
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 [B29C49/022](#)
 CCA - [B29B2911/1402](#) ;
 [B29B2911/14026](#) ;
 [B29B2911/14033](#) ;
 [B29B2911/1404](#) ;
 [B29B2911/1442](#) ;
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 [B29B2911/14473](#) ;
 [B29B2911/14526](#) ;
 [B29K2105/253](#) ; [B29L2031/463](#) ;
 [B29L2031/7158](#)
 PA - OWENS BROCKWAY PLASTIC
 PROD [US]
 TI - Plastic **container** with
 integral **flexible** handle
 AB - A plastic **container** comprising
 hollow plastic body including
 a **side** wall, a base wall, a
 shoulder, an integral **neck** and
 an integral finish on the upper
 end of the **neck**. An integral
 laterally extending **flexible**
 handle is provided on the **neck**
 below the threads or the like that
 are positioned on the **neck** for
 receiving a **closure**. The handle
 may be of a number of



configurations including a T-shape or annular bail-type shape. A **method** and apparatus for making the **container** comprises injecting, extruding and blowing wherein the finish and the integral handle are first injection molded and thereafter the **neck** and body are formed by extrusion of plastic integrally with the finish followed by blow molding of the hollow **container**.

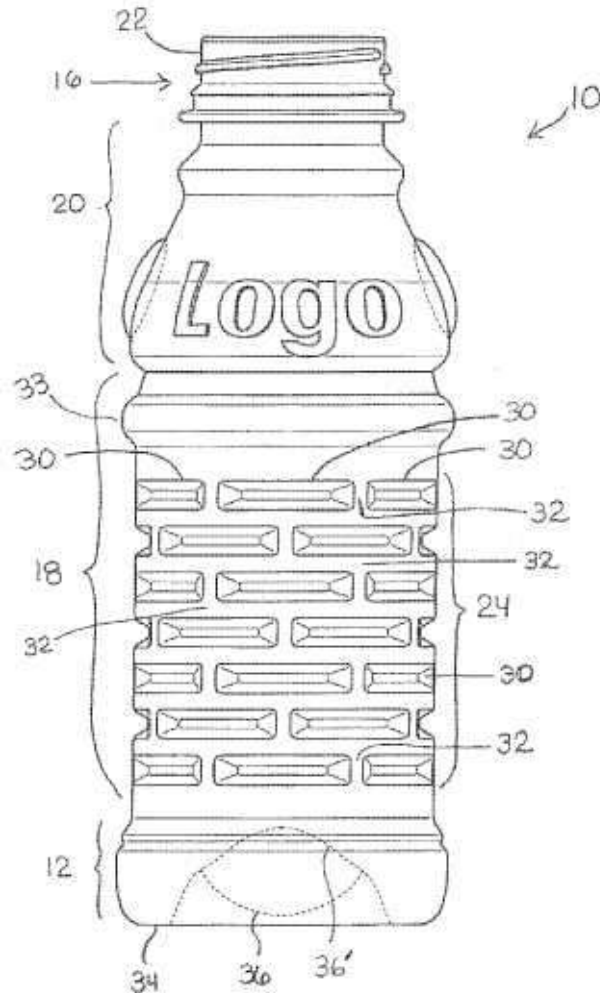
6/24 © EPODOC / EPO

- PN - [US6279794](#) B1 20010828
- PR - WO1999JP00754
19990219; JP19980000742U
19980107
- AP - US19990355261 19990726
- DT - **
- CT - [USD423774S](#) S []; [US1022791](#) A [];
[US1214161](#) A []; [US1605195](#) A [];
[US1825897](#) A []; [US2222914](#) A [];
[US4955572](#) A []; [US5214825](#) A [];
[US5325991](#) A []; [US5489078](#) A [];
[US5622346](#) A []; [US6019335](#) A [];
[US6131779](#) A []
- CCI - [B65D23/106](#) ; [A45F3/16](#) ;
[A45F5/02](#) ; [B65D23/104](#)
- CCA - [A45F5/021](#) ; [A45F2200/0566](#) ;
[A45F2200/0583](#)
- PA - VIJAY CO LTD [US]
- TI - Packaging bottle with carrying handle
- AB - A plastic **container** bottle provided with carrying means. The bottle is composed of a **neck** portion of thick wall that has a step below a support ring formed around a lower portion of the **neck** portion and projecting



therefrom and a ring-shaped groove between the step and the support ring, and a flat-shaped body portion of thin wall with shoulder portions extending to both **sides** from the base of the **neck** portion, that are formed integrally by stretch blow molding **process**. The carrying means is composed of a rectangular insertion plate having a width at least substantially the same as the outer diameter of the **neck** portion and a fitting portion at an end thereof that are integrally formed from a **flexible** thermoplastic material in an L-shape, the fitting portion having a pair of holding pieces of the same shapes with inner circumference thereof having the same diameter as the diameter of the ring-shaped groove and end **opening** being narrower than the diameter of the ring-shaped groove. The holding pieces are fitted onto the ring-shaped groove from the back face **side** of the body portion of the bottle, and the insertion plate is located with the longitudinal direction directed vertically at the center of the back face of the body portion, with a holding space being formed between the insertion plate and the back face **side** of the body portion.

PN - [US2004149677](#) A1 20040805
 PNFP - US6983858 B2 20060110
 PR - US20030354590 20030130
 AP - US20030354590 20030130
 DT - *; Rep
 CT - || STSE (B2)
 [US2971671](#) A 19610214 [
] (SHAKMAN JAMES G)
 [US3409167](#) A 19681105 [
] (LEWIS BLANCHARD RICHARD)
 [US3426939](#) A 19690211 [
] (YOUNG WILLIAM E)
 [US4381061](#) A 19830426 [
] (CERNY DARYL D, et al)
 [US4880129](#) A 19891114 [
] (MCHENRY ROBERT J [US], et al)
 [US5060453](#) A 19911029 [
] (ALBERGHINI ALFRED C [US], et
 al)
 [US5067622](#) A 19911126 [
] (GARVER LAWRENCE E [US], et al)
 [US5234126](#) A 19930810 [
] (JONAS HENRIETTA [US], et al)
 [US6497333](#) B1 20021224 [
] (ELLIS DOUGLAS S [US], et al)
 [US2001027978](#) A1 20011011 [
] (FINLAY PATRICK J [US], et al)
 [US2002104820](#) A1 20020808 [
] (HONG SEUNGYEOL [US], et al)
 [US2002153343](#) A1 20021024 [
] (TOBIAS JOHN W [US], et al)
 [US2003000911](#) A1 20030102 [
] (KELLEY PAUL [US], et al)
 - || R141 (A1)
 [US2971671](#) A [
 [US3426939](#) A [
 [US4497855](#) B1 [
 [US4381061](#) A [
 [US6595380](#) B2 [
 [US5234126](#) A [
 [US6612451](#) B2 [
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 [US3409167](#) A [
 [US4880129](#) A [
 [US5067622](#) A [
 [US6497333](#) B1 [
 CCI - [B65D1/0276](#) ; [B65D79/005](#)



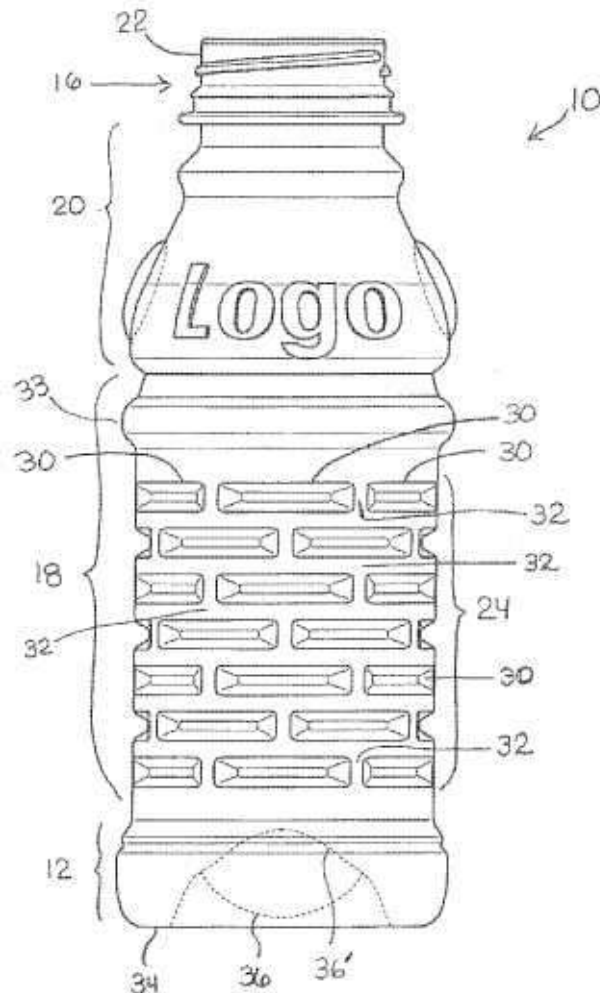
CCA - [B65D2501/0018](#)

PA - (B2)
PLASTIPAK PACKAGING INC [US]

TI - (A1 B2)
Hot fillable **container**
with **flexible** base portion

AB - (A1 B2)
A plastic **container** comprised of
a closed base, a body portion,
and a **neck** portion with a
dispensing **opening**. The closed
base includes a substantially
rigid support portion and
a **flexible** portion. The body
portion preferably includes a
shoulder portion and a
substantially rigid wall portion
that includes a plurality of
reinforcement formations.
The **container** is configured so
that the **flexible** portion of the
base contracts upwardly about
the support portion in response
to vacuum pressures generated
within the **container**, while the
substantially rigid support
portion of the **sidewall** remains
substantially firm, for example,
to accept or receive a label. If
desired, the shoulder portion
may include a logo and/or one
or more pressure relief
formations. A **method** for
producing hot-filled, labeled
containers is also disclosed.

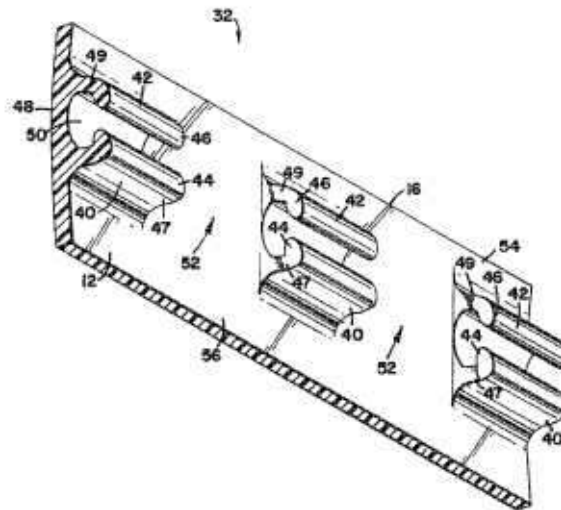
PN - [US2006108020](#) A1 20060525
 PNFP - US7367365 B2 20080506
 PR - US20060325045
 20060104; US20030354590
 20030130
 AP - US20060325045 20060104
 DT - **
 CT - || STSE (B2)
[US4381061](#) A 19830426 [
] (CERNY DARYL D, et al)
[US4542029](#) A 19850917 [
] (CANER ALI R [US], et al)
[US4667454](#) A 19870526 [
] (MCHEMRY ROBERT J [US], et al)
[US4863046](#) A 19890905 [
] (COLLETTE WAYNE N [US], et al)
[US5060453](#) A 19911029 [
] (ALBERGHINI ALFRED C [US], et
 al)
[US5251424](#) A 19931012 [
] (ZENER RICHARD D [US], et al)
 - || R141 (A1)
[US4381061](#) A [
];
[US4667454](#) A [
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[US4542029](#) A [
];
[US4863046](#) A [
];
[US5060453](#) A [
];
[US5251424](#) A [
]
 CCI - [B65D1/0276](#) ; [B65D79/005](#)
 CCA - [B65D2501/0018](#)
 PA - (A1)
 PLASTIPAK PACKAGING INC
 - (B2)
 PLASTIPAK PACKAGING INC [US]
 TI - (A1 B2)
 Hot fillable **container**
 with **flexible** base portion
 AB - (A1 B2)
 A plastic **container** comprised of
 a closed base, a body portion,
 and a **neck** portion with a
 dispensing **opening**. The closed
 base includes a substantially
 rigid support portion and
 a **flexible** portion. The body
 portion preferably includes a



shoulder portion and a substantially rigid wall portion that includes a plurality of reinforcement formations. The **container** is configured so that the **flexible** portion of the base contracts upwardly about the support portion in response to vacuum pressures generated within the **container**, while the substantially rigid support portion of the **sidewall** remains substantially firm, for example, to accept or receive a label. If desired, the shoulder portion may include a logo and/or one or more pressure relief formations. A **method** for producing hot-filled, labeled containers is also disclosed.

9/24 © EPODOC / EPO

- PN - [US5934806](#) A 19990810
- PR - US19980126612
19980731; US19970786511
19970121; US19960651071
19960522
- AP - US19980126612 19980731
- DT - **
- CT - || STSE (A)
[US3557413](#) A 19710126 [] (ENGLE WILLIAM H);
[US4944072](#) A 19900731 [] (ROBSON PETER M [GB]);
[US5070584](#) A 19911210 [] (DAIS BRIAN C [US], et al);
[US5138750](#) A 19920818 [] (GUNDLACH DOUGLAS P [US], et al);
[US5140727](#) A 19920825 [] (DAIS BRIAN C [US], et al);
[US5273511](#) A 19931228 [] (BOECKMAN HUGO [US]);
[US5307552](#) A 19940503 [] (DAIS BRIAN C [US], et al);
[US5369847](#) A 19941206 [] (NAYA MASAHIRO [JP], et al);
[US5403094](#) A 19950404 []



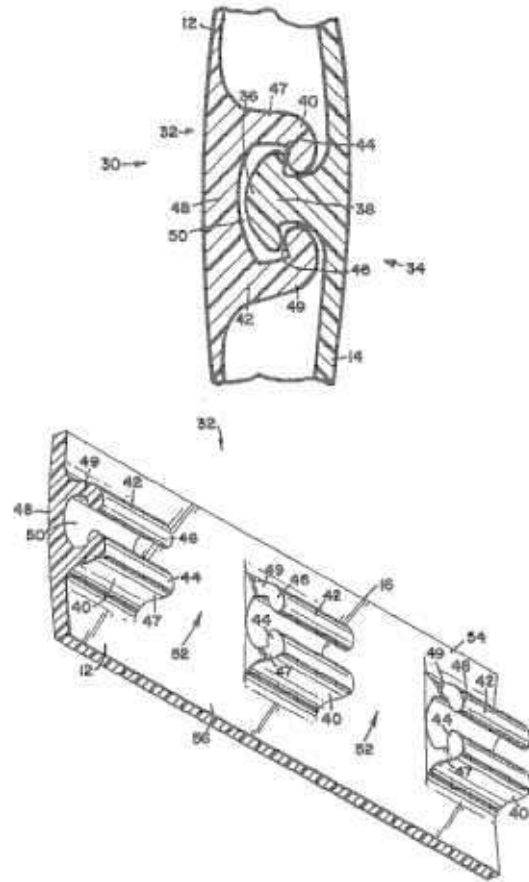
] (TOMIC MLSDOMIR [US]);
[US5462360](#) A 19951031 [
] (TILMAN PAUL A [US], et al);
[US5647100](#) A 19970715 [
] (PORCHIA JOSE [US], et al);
[EP0446760](#) A1 19910918 [
] (DOWBRANDS INC [US]);
[EP0510797](#) A1 19921028 [
] (MOBIL OIL CORP [US]);
[EP0647415](#) A1 19950412 [
] (REYNOLDS CONSUMER PROD
 [US])

- CCI - [B26F1/08](#) ; [B26F1/12](#) ;
[B29C65/02](#) ; [B65D33/255](#) ;
[B65D33/2558](#)
- CCA - [A44B19/16](#) ; [Y10S24/50](#) ;
[Y10S24/38](#) ; [Y10S24/39](#) ;
[Y10T24/45157](#) ; [Y10T24/45168](#) ;
[B31B70/8132](#)
- TI - **Closure** arrangement for
 reclosable **bag** and **method**
 thereof
- AB - A **flexible bag** includes a female
 profile and a male profile
 cooperatively arranged to inhibit
 interlock-blockage caused by
 small substances. The female
 profile includes first and second
 opposing legs. Each of the legs of
 the female profile includes a
 securing head at an extended
 end, a base adapted for
 attachment to the first **panel**
 section of the **bag**. A **neck** is
 between the securing head and
 the base. At least one of the first
 and second legs has a plurality
 of portions removed to form a
 first series of breaks. The
 portions removed include the
 securing head and the **neck**. The
 male profile is adapted for
 attachment to the second **panel**
 section of the **bag**, and is
 arranged to interlock with the
 first and second legs. A **method**
 of constructing a **flexible bag**,
 and a **method** for using

a **flexible bag** are also described.

10/24 © EPODOC / EPO

- PN - [WO9831597](#) A1 19980723
- PR - US19970786511 19970121
- AP - WO1997US22126 19971205
- DT - *; Rep
- CT - |EP| ISR (A1)
[EP0510797](#) A1 19921028
 [A] (MOBIL OIL CORP [US])
 [A] 1-22
 * the whole document *;
[EP0647415](#) A1 19950412
 [A] (REYNOLDS CONSUMER PROD [US])
 [A] 1-22
 * the whole document *;
[EP0446760](#) A1 19910918
 [A] (DOWBRANDS INC [US])
 [A] 1-22
 * the whole document *;
[US5273511](#) A 19931228
 [A] (BOECKMAN HUGO [US])
 [A] 1-22
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[US5617770](#) A 19970408
 [XP] (MAY TIMOTHY J [US])
 [XP] 1,5,9-11,15,16,21
 * column W *
- CCI - [B26F1/08](#) ; [B26F1/12](#) ;
[B29C65/02](#) ; [B65D33/255](#) ;
[B65D33/2558](#)
- CCA - [A44B19/16](#) ; [Y10S24/50](#) ;
[Y10S24/38](#) ; [Y10S24/39](#) ;
[Y10T24/45157](#) ; [Y10T24/45168](#) ;
[B31B70/8132](#)
- PA - REYNOLDS CONSUMER PROD [US]
- TI - **CLOSURE ARRANGEMENT FOR RECLOSABLE BAG**
- AB - A **flexible bag** (10) includes a female profile (32) and a male profile (34) cooperatively arranged to inhibit interlock-blockage caused by small substances. The female profile includes first (40) and second (42) opposing legs. Each of the



legs of the female profile includes a securing head (44, 46) at an extended end, a base (48) adapted for attachment to the first **panel** section of the **bag**. A **neck** (49) is between the securing head and the base. At least one of the first and second legs has a plurality of portions removed to form a first series of breaks (52). The portions removed include the securing head and the **neck**. The male profile is adapted for attachment to the second **panel** section of the **bag**, and is arranged to interlock with the first and second legs. A **method** of constructing a **flexible bag**, and a **method** for using a **flexible bag** are also described.

11/24 © EPODOC / EPO

- PN - [US4225050](#) A 19800930
- PR - US19790040630 19790521
- AP - US19790040630 19790521
- DT - *
- CT - [US3460703](#) A []; [US3504818](#) A [];
[US3874540](#) A []; [US3904061](#) A [];
[US4153174](#) A []
- CCI - [B65D41/3409](#)
- PA - SEGEN IND INC
- TI - Tamper-proof bottle caps and **method** of forming same
- AB - A molded or formed tamper-proof cap adapted to be applied in unitary form to a **container opening** having a threaded **neck** and a ratchet retainer means associated with said threaded **neck** but being resistant to removal in unitary form from said **container** without separation of its parts. The present caps comprise a main cap body and an annular retainer skirt element which is coaxial with and has a larger diameter than said main cap body. Said retainer skirt element has a top surface comprising an annular horizontal flange and a cylindrical vertical **side** wall, said **side** wall being provided with angular engagement means adapted to slip over the ratchet retainer means present on the **container** when said cap is rotated onto the threaded **neck** of the **container** but to resist counter-rotation of said cap. The invention is characterized by providing said annular flange with at least one discontinuous transverse severance line which forms a segmented cut or circle which substantially surrounds the main cap body, the leading and trailing ends of said severance lines forming therebetween narrow bridging areas of said flange, which areas are **flexible** or

weak in the direction of counter rotation of said cap.

12/24 © EPODOC / EPO

PN - [MX9502429](#) A 19970228

PR - US19940295191 19940824

AP - MX19950002429 19950531

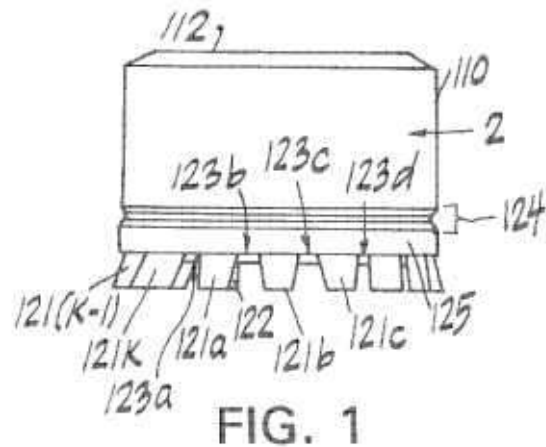
DT - I

CCI - [B65D41/3423](#)

PA - KERR GROUP INC [US]

TI - TAMPER-EVIDENT **CLOSURE**.

AB - A tamper-evident **closure** and **container** are provided which includes a threaded **closure** and tamper-indicating features. The features have upwardly an inwardly folded tabs which lock against the lower surface of an annular shoulder on a **container neck** to retain tamper-indicating features on the **neck** as the **closure** is removed. The tamper-indicating features include a pilfer ring to which the tabs are integrally connected. The tabs are resilient and are fixed by the **container** finish at the joints where they are joined to the pilfer ring. The **closure** of the present invention may be installed simply by screwing it onto a **container neck** in a one-step **process**. The **flexible** tabs assist in guiding the **closure** and centering it when installed onto the **container neck** and do not require the holding of the **closure** or the **container** finish to close tolerances in order to be consistently effective. A thin **web** of material is provided between the tabs which prevents the outward bending of the tabs which may occur during shipping or handling.



13/24 © EPODOC / EPO

PN - [GB944450](#) A 19631211

PR - DE1960C022716
19601111; FR19610862648
19610524

AP - GB19610040216 19611109

DT - *

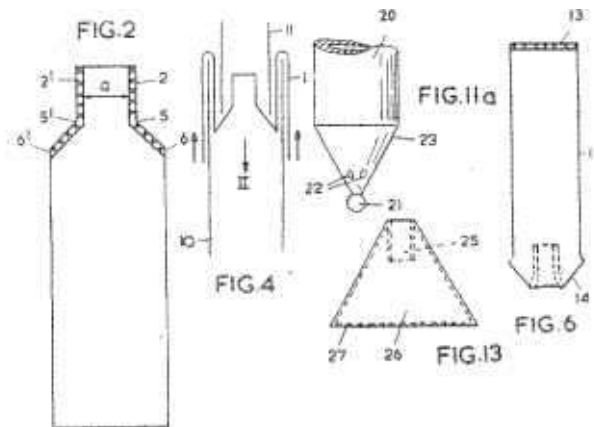
CCI - [B65D31/145](#) ; [B29C67/0018](#)

CCA - [B29L2031/772](#)

PA - VALER FLAX

TI - Improvements relating to valved containers formed of **flexible** synthetic plastic material

AB - 944,450. Making plastics bags. V. FLAX. Nov. 9, 1961 [Nov. 11, 1960; May 24, 1961], No. 40216/61. Heading B5D. [Also in Divisions B8 and F3] A plastics valve **bag** is formed by sealing areas at one end of a flattened tube or a pair of superposed sheets to form a **neck, side** seams also being formed in the second case, and turning the body inside out over the **neck** so that the latter forms an internal valve. The initially inner surfaces are preferably of a mirror finish and the initially external surfaces may be printed upon. Various shapes of **neck** are described and the body may be as shown in Fig. 2. The tube reversal **process** may be performed by tubular members 10, 11 moving as shown in Fig. 4. A filling **nozzle**, Fig. 11a, which only penetrates the valve part-way has a portion 23 fitting the flared **neck** of the latter and discharge openings 23.



PN - [GB1183149](#) A 19700304

PR - SE19670003015 19670306

AP - GB19670008272D 19680220

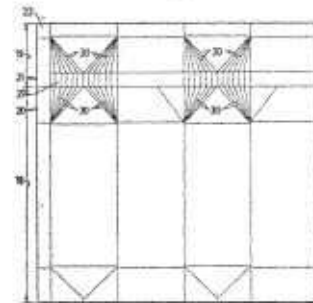
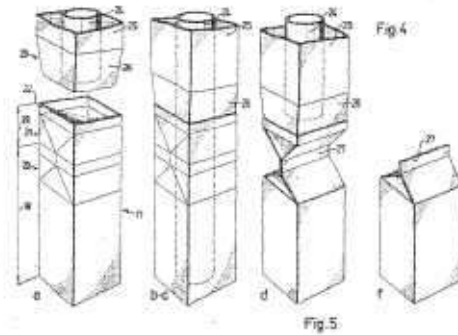
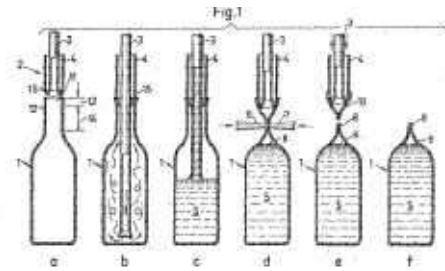
DT - **

CCI - [B65B55/10](#) ; [B65D5/067](#)

PA - TETRA PAK AB [SE]

TI - Improvements in and relating to Aseptic Packaging of a Sterile Liquid

AB - 1,183,149. Packaging sterile liquids; filling bottles; cartons. TETRA PAK A.B. 20 Feb., 1968 [6 March, 1967], No. 8272/68. Headings B8C, B8P and B8T. A **flexible container** is sterilized by an agent which enters the **container** through a pipe engaging the **container opening** of the **container** then being filled with sterile liquid through the same pipe and the opposite **sides** of the **container's neck** are sealed together, prior to disengagement of the pipe. Two coaxial pipes may be used, the inner of which feeds in the sterilizing medium and then the contents and the outer makes sealing contact with the **container** mouth. In the embodiments shown, telescoping coaxial pipes 3, 4 are used, the inner of which descends to the base of the **container** and rises as the **container** fills. The outer pipe 4 of one arrangement, engages the mouth 13 of a **container** 1 e.g. a plastics bottle, a gaseous or liquid sterilizing agent entering the bottle through the . lowered inner pipe 3, Fig. 1b, and leaving through the outer tube 4. For gaseous agents, the bottle may be upside down. Sterilized liquid is then introduced and when filling is complete, pipe 3



retracts and sealing blocks 6, 7 seal the **neck**. After severing, the waste part 10 is removed as the pipes rise together and is ejected by air blasts down the pipe 4. Any trapped liquid may be blown out through connections between the pipes (not shown) back through the pipe 4. The package may have a cut 16 above the seal, Fig. 2 (not shown), to facilitate **opening**. In an alternative arrangement, carbons 17, Fig. 4, are filled by the same **method** through pipes 24 and 26, the cartons being formed from a blank, Fig. 5, the upper portion 19 of which corresponds to the waste portions 10, Fig. 1e. Folding in of the **closure** is facilitated by score lines 30. A modification is to connect the **container** to a pressure source, to maintain sterility without the necessity of a leakproof seal between the outer pipe and **container**.

15/24 © EPODOC / EPO

PN - [GB1160982](#) A 19690813

PR - GB19660035232
19660805; US19650477692
19650806

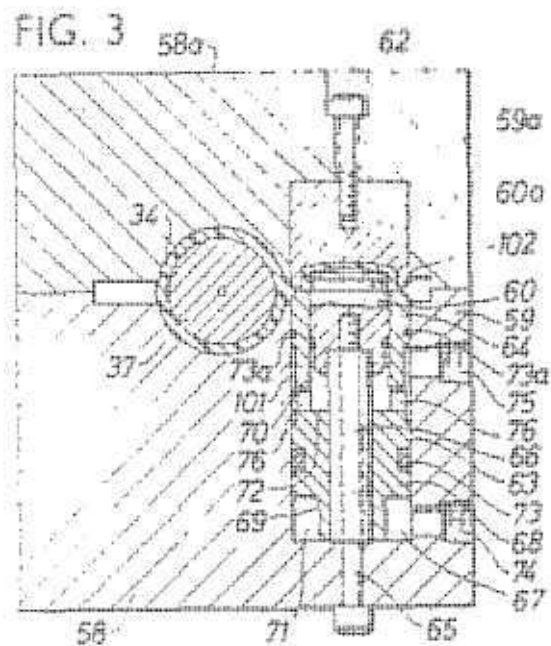
AP - GB19690002679 19660805

DT - **

CCI - [B29C43/361](#) ; [B29C49/18](#) ;
[B29C49/4802](#) ; [B29C49/482](#) ;
[B29C49/76](#) ; [B65D23/00](#) ;
[B65D1/00](#) ; [B65D1/0223](#) ;
[B65D1/323](#) ; [B65D1/326](#)

CCA - [B29L2031/565](#) ; [B29C43/00](#) ;
[B29C49/04](#) ; [B29C2043/3615](#) ;
[B29C2043/3665](#) ;
[B29C2049/028](#) ; [B29C2049/165](#) ;
[B29C2049/4805](#) ;
[B65D2501/0063](#) ; [Y10S425/003](#)

PA - SYBRON CORP [US]



- TI - Improvements relating to
Plastics Containers and their
Manufacture
- AB - 1,160,982. Blow-
moulding; **closure** caps. SYBRON
CORP. 5 Aug., 1966 [6 Aug.,
1965], No. 2679/69. Divided out
of 1,160,981. Heading B5A. [Also
in Division B8] In a blow-
moulding **process**, containers
having simultaneously
formed **closure** caps are formed
by mould halves 58, 58a having
compression moulding die
portions 59, 59a with dies 60,
60a filling **opening** over which
the caps fit being formed
between the mould halves at 34
and blow tube 37. The cap (17,
Fig. 4, not shown) is formed
connected to **container** 4 by
elongate **flexible web** 18.
The **container neck** is offset from
the longitudinal axis of
the **container** so as to allow the
cap to be formed from the same
parison width. As shown in Fig.
3, the cap may be stripped from
the compression moulding dies
60, 60a by movement of
stripping sleeve 64, advanced by
fluid supplied through port 74
below portion 68 of the sleeve
and retracted by fluid supplied
through port 75 above portion
68.

16/24 © EPODOC / EPO

- PN - [WO9204252](#) A1 19920319
- PR - FR19900011019 19900905
- AP - WO1991FR00711 19910905
- DT - *; Rep
- CT - |EP| ISR (A1)
[BE625230](#) A [A];
[DE3139083](#) A1 [A];
[GB944565](#) A [A];
[EP0359968](#) A1 [A];

[FR2198867](#) A1 [A]

CCI - [B65D77/0426](#)

CCA - [Y02W30/807](#)

PA - NOVEMBAL SA [FR]

TI - TAMPER-PROOF PACKAGING HAVING INNER AND OUTER WRAPPINGS AND **METHOD** FOR PRODUCING SAME

AB - A single use packaging comprising: a shaped plastic-based inner **container** (2) an incompletely **flexible** but substantially deformable thin wall, said wall being thicker and substantially dimensionally stable in the region of the **neck** (3) and the discharge **opening**, and comprising stiffening grooves; a reusable sealing device (5) which is releasably engageable with the **opening** of the **container**; an outer wrapping (6) based on cardboard or the like, shaped to fit around the **container** and comprising two small **side** walls; and folding lines defining rigidly combined foldable flaps or **panels** adjoining the second small **side** wall and provided with a hole allowing the **container neck** to pass therethrough.

17/24 © EPODOC / EPO

PN - [FR2659600](#) A1 19910920

PNFP - FR2659600 B1 19950120

PR - FR19900003167 19900313

AP - FR19900003167 19900313

DT - *; Rep

CT - || STSE (A1)
[WO8604545](#) A1 19860814 [Y] (BAXTER TRAVENOL LAB [US]);
[CH370634](#) A 19630715 [Y] (HABRA WERK OTT KG [DE]);
[EP0041924](#) A1 19811216 [X] (SHAVIT HENRI [CH], et al);
[CH395719](#) A 19650715 [A] (BERGHGRACHT MARIUS [BE]);
[US3028796](#) A 19620410 [A] (GUNTER NEUENDORF, et al);
[DE3510696](#) A1 19851107 [A] (NAGEMA VEB K [DD]);
[DE2633341](#) A1 19770224 [A] (CUTTER LAB);
[GB732489](#) A 19550622 [A] (E G STANDE MFG COMPANY INC)

CCI - [B65D75/5877](#)

CCA - [B31B2120/40](#) ; [B31B2105/00](#)

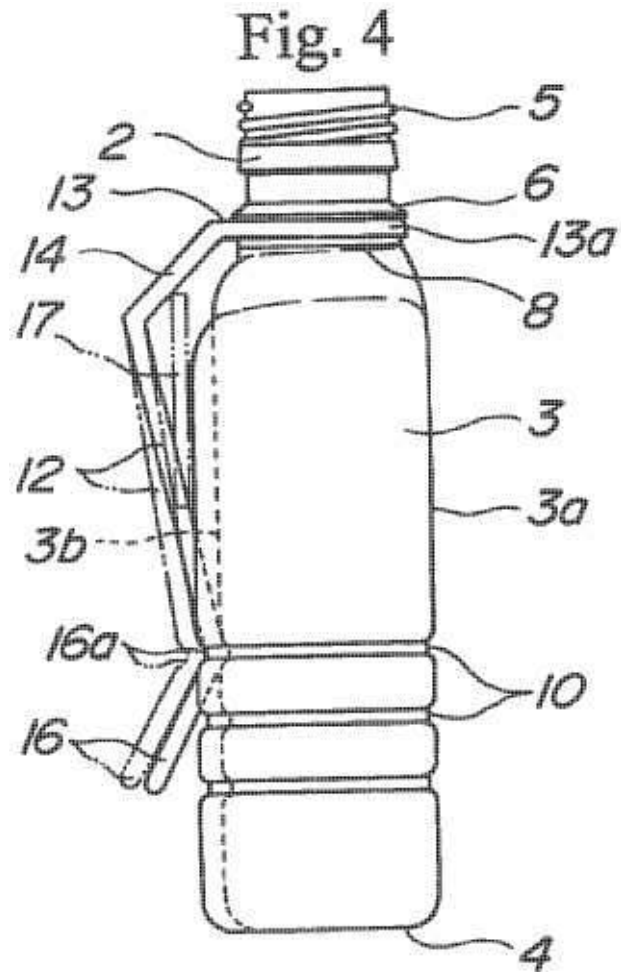
PA - (A1 B1)
OREAL [FR]

TI - (A1)
Method for manufacturing a **container** including a **flexible** pouch and a rigid **neck** and **container** obtained by means of this **method**

AB - (A1)
Method for manufacturing a **container** including a **flexible** pouch (25) and a rigid **neck** (11) in which a sheet (2) made from **flexible** material equipped with an **opening** (21) is fastened over a rigid piece (1) comprising a **neck** (11) and a shoulder (12), slipping the sheet (2) over the **neck** (11) via its **opening** (21) so as to cover the shoulder (12) by folding the sheet into two parts (20a) and (20b) on either **side** of the shoulder (12) and by welding the opposite edges which have remained free of the two parts (20a) and

(20b), and, finally, by welding the edges forming the base of the pouch (25). Use is preferably made of a block (tree) (4) for shaping the two parts (20a) and (20b) before fastening together the lateral edges (22a, 22b; 23a, 23b) of the parts (20a) and (20b).
<IMAGE>

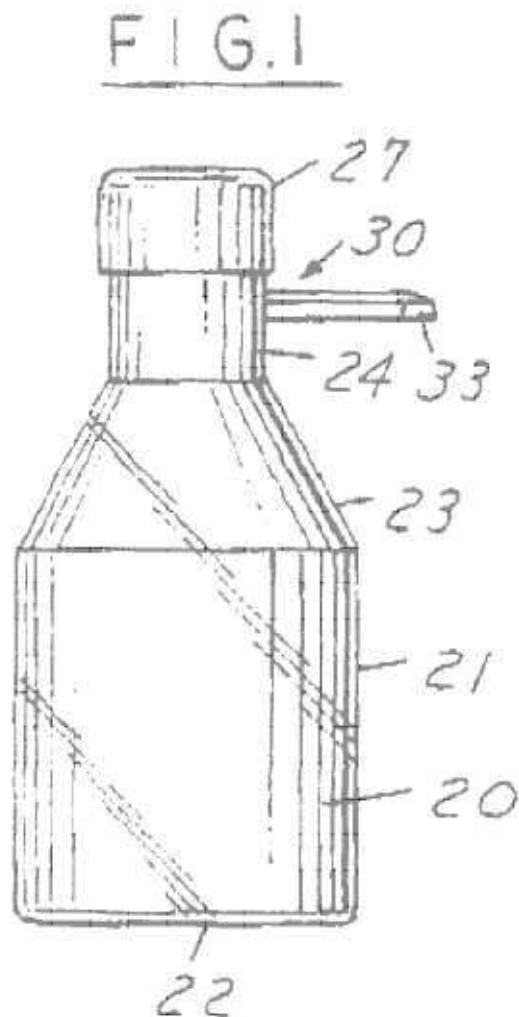
18/24 © EPODOC / EPO
 PN - [EP1059238](#) A1 20001213
 PNFP - EP1059238 A4 20041020
 PR - WO1999JP00754
 19990219; JP19980000742U
 19980107
 AP - EP19990905252 19990219
 DT - **
 CT - || STSE (A4)
[WO9816132](#) A1 19980423
 [PX] (GENDALA CHRISTOPHER M
 [AU])
 [PX] 1
 * figure -; claim - *;
[US5301857](#) A 19940412
 [Y] (GREEN BRIAN J [US])
 [Y] 1
 * figure -; claim - *;
[US1236929](#) A 19170814
 [Y] (HAUCK LOUIS C [US])
 [Y] 1
 * figure -; claim - *;
[US5407110](#) A 19950418
 [Y] (MARSH JR JOHN R [US])
 [Y] 9
 * figure -; claim - *;
[US5325991](#) A 19940705
 [Y] (WILLIAMS GARRY L [US])
 [Y] 9
 * figure -; claim - *
 CCI - [A45F5/02](#) ; [A45F3/16](#) ;
[B65D23/104](#) ; [B65D23/106](#)
 CCA - [A45F5/021](#) ; [A45F2200/0566](#) ;
[A45F2200/0583](#)
 PA - (A1 A4)
 VIJAY CO LTD ING [JP]
 TI - (A1 A4)
 PACKAGING BOTTLE WITH
 CARRYING HANDLE
 AB - (A1)
 A plastic **container** bottle



provided with carrying means. The bottle is composed of a **neck** portion of thick wall that has a step below a support ring formed around a lower portion of the **neck** portion and projecting therefrom and a ring-shaped groove between the step and the support ring, and a flat-shaped body portion of thin wall with shoulder portions extending to both **sides** from the base of the **neck** portion, that are formed integrally by stretch blow molding **process**. The carrying means is composed of a rectangular insertion plate having a width at least substantially the same as the outer diameter of the **neck** portion and a fitting portion at an end thereof that are integrally formed from a **flexible** thermoplastic material in an L-shape, the fitting portion having a pair of holding pieces of the same shapes with inner circumference thereof having the same diameter as the diameter of the ring-shaped groove and end **opening** being narrower than the diameter of the ring-shaped groove. The holding pieces are fitted onto the ring-shaped groove from the back face **side** of the body portion of the bottle, and the insertion plate is located with the longitudinal direction directed vertically at the center of the back face of the body portion, with a holding space being formed between the insertion plate and the back face **side** of the body portion.

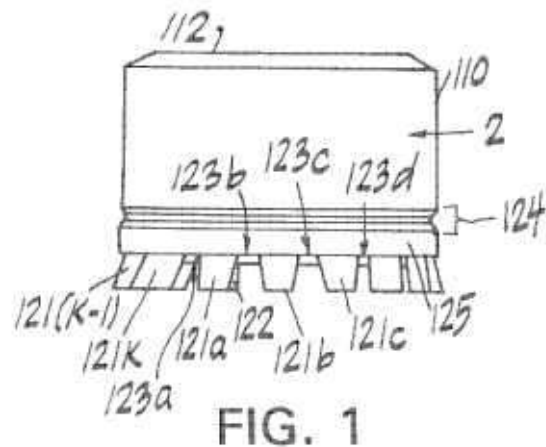
<IMAGE>

PN - [EP0764588](#) A1 19970326
 PR - US19950532130 19950922
 AP - EP19960306885 19960920
 DT - *; Rep
 CT - || STSE (A1)
 [WO8202369](#) A1 19820722
 [XY] (THOMPSON MORTIMER STAFFORD)
 [X] 1,2,5,8,9,12,14,15,18
 * abstract *
 [Y] 6,7,13,19;
 [US2911673](#) A 19591110
 [YD] (SOUBIER LEONARD D)
 [YD] 6,7,13,19
 * the whole document *;
 [US3086249](#) A 19630423
 [X] (NELSON JOHN R, et al)
 [X] 1,6,7,13,19
 * the whole document *;
 [GB2041286](#) A 19800910
 [A] (YOSHINO KOGYOSHO CO LTD)
 [A] 1-19
 * the whole document *;
 [US4231605](#) A 19801104
 [A] (NEWMAN FRED C)
 [A] 1-19
 * the whole document *
 CCI - [B29C49/0073](#) ; [B29C49/022](#) ;
 [B65D23/10](#)
 CCA - [B29L2031/7158](#) ;
 [B29L2031/463](#) ;
 [B29B2911/1402](#) ;
 [B29B2911/14026](#) ;
 [B29B2911/14033](#) ;
 [B29B2911/1404](#) ;
 [B29B2911/1442](#) ;
 [B29B2911/1444](#) ;
 [B29B2911/14473](#) ;
 [B29B2911/14526](#) ;
 [B29K2105/253](#)
 PA - OWENS BROCKWAY PLASTIC
 PROD [US]
 TI - Plastic **container** with
 integral **flexible** handle
 and **method** and apparatus for
 making such a **container**
 AB - A plastic **container** comprising a



hollow plastic body (20)
including a **side** wall (21), a base
wall (22), a shoulder (23), an
integral **neck** (24) and an
integral finish (25) on the upper
end of the **neck** (24). An integral
laterally extending **flexible**
handle (30) is provided on
the **neck** below the threads (26)
or the like that are positioned on
the **neck** for receiving a **closure**
(27). The handle may be of a
number of configurations
including a T-shape or annular
bail-type shape. A **method** and
apparatus for making
the **container** comprises
injecting, extruding and blowing
wherein the finish and the
integral handle are first
injection molded and thereafter
the **neck** and body are formed by
extrusion of plastic integrally
with the finish followed by blow
molding of the hollow **container**.
<IMAGE>

20/24 © EPODOC / EPO
PN - [EP0698559](#) A2 19960228
PNFP - EP0698559 A3 19960911
PR - US19940295191 19940824
AP - EP19950305360 19950731
DT - *; Rep
CT - || STSE (A3)
[DE4108453](#) A1 19911010
[X] (DEUSSEN STELLA KG [DE])
[X] 1-12
* page 3, line 68 - page 5,
line 21; figures 1-4 *;
[US4657153](#) A 19870414
[X] (HAYES THOMAS H [US])
[X] 1-12
* column 3, line 4 - line 13;
figures 7-9 *;
[EP0410059](#) A1 19910130
[A] (OWENS ILLINOIS CLOSURE
INC [US])
[A] 1-12



* column 3, line 36 - column 4,
line 42; figures 4-7 *

CCI	- B65D41/3423
PA	- (A2 A3) KERR GROUP INC [US]
TI	- (A2 A3) Tamper-evident closure and tamper-evident closure and container combination
AB	- (A2) A tamper-evident closure (2) includes a threaded closure and tamper-indicating features. The features have upwardly and inwardly folded tabs (121) which lock against the lower surface of an annular shoulder (202) on a container neck (203) to retain the tamper-indicating features on the neck as the closure is removed. The tamper-indicating features include a pilfer ring (125) to which the tabs are integrally connected. The tabs are resilient and are flexed by the container finish at the joints where they are joined to the pilfer ring. The closure of the present invention may be installed simply by screwing it onto a container neck in a one- step process . The flexible tabs assist in guiding the closure and centering it when installed onto the container neck and do not require the holding of the closure or the container finish to close tolerances in order to be consistently effective. A thin web (123) of material is provided between the tabs which prevents the outward bending of the tabs which may occur during shipping or handling. The invention also provides the tamper-evident closure and container combination. <MATH>

21/24 © EPODOC / EPO

PN - [EP0525615](#) A1 19930203

PNFP - EP0525615 B1 19970326

PR - US19910738720
19910731; US19910739016
19910731

AP - EP19920112532 19920722

DT - *; Rep

CT - || STSE (A1)
[US4956908](#) A 19900918
[A] (MORSE MARK J [US], et al);
[EP0196577](#) A1 19861008
[A] (FUJI PHOTO FILM CO LTD [JP])

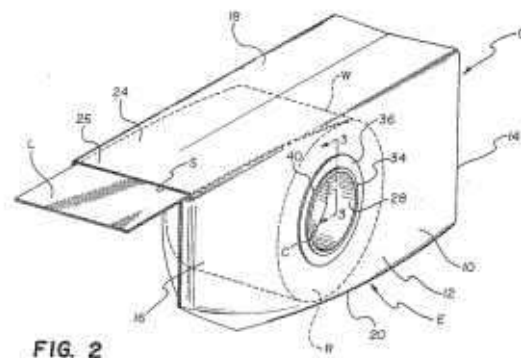
CCI - [B65D85/672](#) ; [G03B27/588](#)

PA - (A1 B1)
EASTMAN KODAK CO [US]

TI - (A1)
Flexible light-tight enclosure for
photosensitive **web** roll
and **method** therefor.

- (B1)
Package comprising a **flexible**
light-tight enclosure for a
photosensitive **web** roll
and **method** therefor

AB - (A1)
A light-tight enclosure for storing
and dispensing a roll of
photosensitive **web** material
wound about a hollow
cylindrical core having open
opposite ends. The enclosure
comprises a **flexible** opaque **bag**
with opposite **sidewalls**
extending between opposing
rearward and forward portions
and opposing upper and lower
portions. Each **sidewall** has a
central aperture therein
congruent with each core end.
The rearward portion defines a
closable **opening** for receiving
the roll. A shallow **neck** portion
projects from the forward
portion to an end thereof
defining an exit slot for



dispensing the **web** material. A collar fits tightly inside each core end, with an annular flange thereon facing axially outward. An annular ring is attachable to each collar in spaced, inward-facing relation to the flange. The roll is first positioned in the **bag**, through its closable **opening**, so that the **web** material extends into the **neck** portion and out through the exit slot, and so that a central portion of the collar at each core end projects outwardly through the adjacent **sidewall** aperture, with its flange left inside the **sidewall** and facing an annular portion thereof surrounding the aperture. The annular ring is then attached to the outwardly projecting portion of the collar in closely spaced, inward-facing relation to the **sidewall** annular portion, which is thus loosely trapped between the flange and the ring. The **bag opening** is then closed, and the **bag neck** portion is folded back and secured against the **bag** forward portion.

<IMAGE>

PN - [EP0359968](#) A1 19900328

PR - DE19883829606 19880901

AP - EP19890114613 19890808

DT - *; Rep

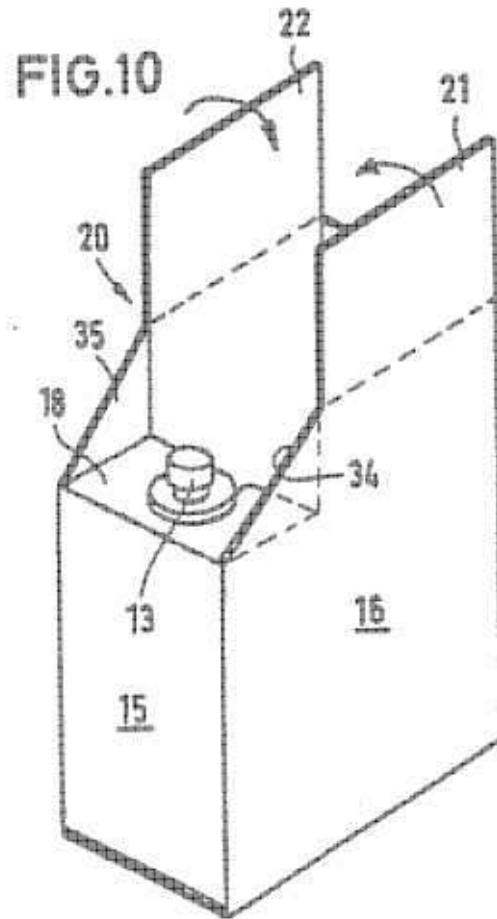
CT - || STSE (A1)
[US3233817](#) A 19660208
 [A] (CASADY ALLEN W)

CCI - [B65D77/065](#)

PA - SIEGER GMBH HCH

TI - **Bag-in-box container**
 and **method** of making and
 filling it.

AB - In known packaging containers
 with a **flexible** inner **bag** made of
 foil or the like with a filling and
 removal **neck** and a wrapping
 made of dimensionally stable
 material, such as paperboard,
 cardboard, corrugated
 cardboard or the like, the filling
 and removal **neck** lies on the
 inside of the packaging **container**
 so loosely that it is necessary,
 for the emptying of the **bag**
 contents, to press in a surface of
 the packaging along a
 perforation in the vicinity of the
 filling and removal **neck**, in
 order to take hold of the **neck**
 through the **opening** formed and
 to insert it in a U-shaped
 insertion **opening** formed
 according to the perforated line,
 before the **neck** can be opened
 and the **bag** contents emptied. In
 this connection, the inner **bag**
 can easily be damaged and
 prematurely emptied. In the
 packaging **container** according
 to the invention, this is avoided
 in that the insertion **opening** (14)
 for the filling and removal **neck**
 (13) is arranged in a supporting
 piece (18), which extends
 between the side walls (15, 16,
 17) of the finished
 packaging **container** (20), in such



a manner that the filling and removal **neck** (13), which is inserted in the slot-shaped **opening** (14), is already fixed in a protected manner in its position of use inside the packaging **container** (20) at a distance from its **side** wall parts (15, 16, 17) and cover parts (21, 22), before the removal of the **bag** contents. In addition to improved and safer handling, such packaging containers can also be manufactured and filled in a simple and fully automatic manner. As a result of their high stability and their reliable handling, such packaging containers are also suitable for dangerous products. <IMAGE>

23/24 © EPODOC / EPO

PN - [CA2277300](#) A1 19980723

PR - US19970786511
19970121; WO1997US22126
19971205

AP - CA19972277300 19971205

DT - I

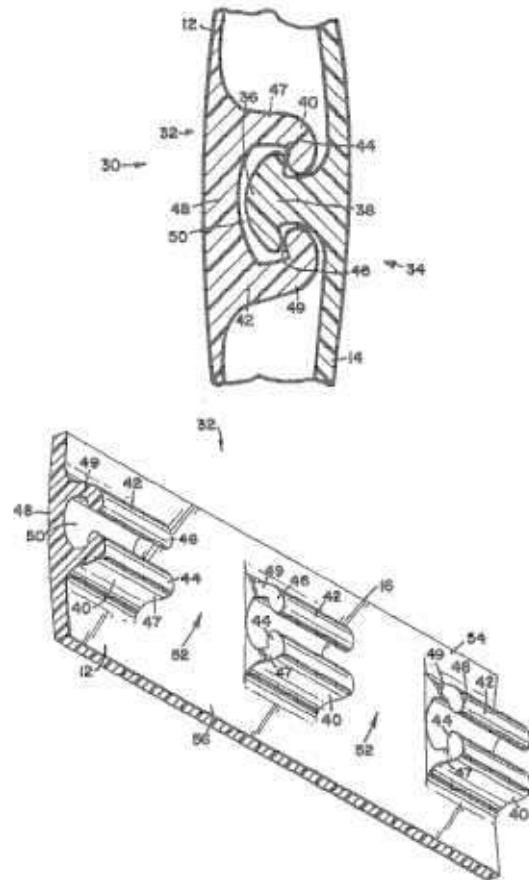
CCI - [B26F1/08](#) ; [B26F1/12](#) ;
[B29C65/02](#) ; [B65D33/255](#) ;
[B65D33/2558](#)

CCA - [A44B19/16](#) ; [Y10S24/50](#) ;
[Y10S24/38](#) ; [Y10S24/39](#) ;
[Y10T24/45157](#) ; [Y10T24/45168](#) ;
[B31B70/8132](#)

PA - REYNOLDS CONSUMER PROD [US]

TI - **CLOSURE ARRANGEMENT FOR
RECLOSABLE BAG**

AB - A **flexible bag** (10) includes a female profile (32) and a male profile (34) cooperatively arranged to inhibit interlock-blockage caused by small substances. The female profile includes first (40) and second (42) opposing legs. Each of the legs of the female profile



includes a securing head (44, 46) at an extended end, a base (48) adapted for attachment to the first **panel** section of the **bag**. A **neck** (49) is between the securing head and the base. At least one of the first and second legs has a plurality of portions removed to form a first series of breaks (52). The portions removed include the securing head and the **neck**. The male profile is adapted for attachment to the second **panel** section of the **bag**, and is arranged to interlock with the first and second legs. A **method** of constructing a **flexible bag**, and a **method** for using a **flexible bag** are also described.

24/24 © EPODOC / EPO

PN - [CA2144910](#) A1 19960225

PR - US19940295191 19940824

AP - CA19952144910 19950317

DT - I

CCI - [B65D41/3423](#)

PA - KERR GROUP INC [US]

TI - TAMPER-EVIDENT **CLOSURE**

AB - A tamper-evident **closure** and **container** are provided which includes a threaded **closure** and tamper-indicating features. The features have upwardly and inwardly folded tabs which lock against the lower surface of an annular shoulder on a **container neck** to retain the tamper-indicating features on the **neck** as the **closure** is removed. The tamper-indicating features include a pilfer ring to which the tabs are integrally connected. The tabs are resilient and are flexed by the **container** finish at the joints where they are joined

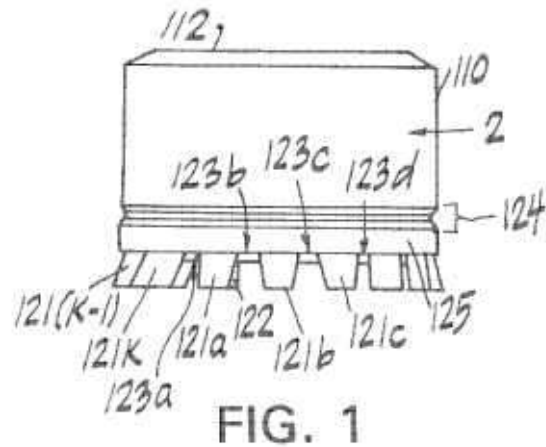


FIG. 1

to the pilfer ring. The **closure** of the present invention may be installed simply by screwing it onto a containerneck in a one-step **process**. The **flexible** tabs assist in guiding the **closure** and centering it when installed onto the **container neck** and do not require the holding of the **closure** or the **container** finish to close tolerances in order to be consistently effective. A thin **web** of material is provided between the tabs which prevents the outward bending of the tabs which may occur during shipping or handling.

[SS 14]