

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 15-279221- -5	FECHA: 2016-05-24 15:39:17
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 3 PATENTES DE MODELO DE UTILIDAD	FOLIOS: 7
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
CONSUELO BENJUMEA RENDÓN

Asunto: Radicación: 15-279221- -5
Trámite: 3
Evento: 1
Actuación: 519
Oficio: 6190
Folios: 7

Patente de Invención				Patente de Modelo de Utilidad	X
Vía Nacional	X				
Vía PCT (Fase Nacional)		Capítulo I		Capítulo II	
No. Solicitud Internacional					
Fecha de Presentación Internacional					

Como resultado del Examen de Fondo realizado, con fundamento en el artículo 85 y en concordancia con el artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le comunica:

1. Documentos estudiados

Descripción:	Radicado N° 15-279221-0000-0000	23/Noviembre/2015
Reivindicaciones:	Radicado N° 15-279221-0000-0000	23/Noviembre/2015
	Radicado N° 15-279221-00003-0000	29/Enero/2016
Dibujos:	Radicado N° 15-279221-0000-0000	23/Noviembre/2015

2. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del capítulo primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por la solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. En el presente caso se estudiarán las reivindicaciones 1 a 9 del capítulo reivindicatorio (Radicado N° 15-279221-00003-0000, Páginas 3 y 4).

Título de la solicitud: “Mecanismo de doble tapa con evidencia de apertura para evitar la adulteración de envases o contenedores” (Radicado N° 15-279221-00003-0000).

El problema planteado en esta solicitud consiste en la necesidad de implementar un mecanismo de cierre o tapa para recipientes, que permita evitar la adulteración de los mismos. Que tenga una doble pared y que además cuente en su interior con algún tipo de dispositivo o sistema para el manchado de la pared interna de la tapa, pero asegurando que el medio usado para manchar sea adecuado y no exista la posibilidad de posibles derramamientos al interior del recipiente. Así mismo, se requiere que el dispositivo no necesite de una alta presión para poder activar el sistema de manchado y así se garantice que siempre va a existir el manchado en recipientes que han sido abiertos o manipulados previamente.

Para resolver este problema técnico la solicitud en estudio proporciona un mecanismo de evidencia de apertura para evitar la adulteración y reutilización de empaques, que corresponde a un dispositivo que consta de una doble tapa con una serie de mecanismos que hacen que al momento en que el usuario gire la tapa para abrir el producto, la superficie lateral de ésta quede manchada por una tinta que se encuentra al interior. El mecanismo de la presente invención marca con una tinta imborrable el interior de la doble tapa, cuando esta es girada por el usuario por la primera apertura del recipiente, y en donde dicho movimiento permite que ambas superficies queden manchadas debido a un elemento, tal como una espuma, que está cargado de tinta que marca las dos superficies con el giro de la tapa.

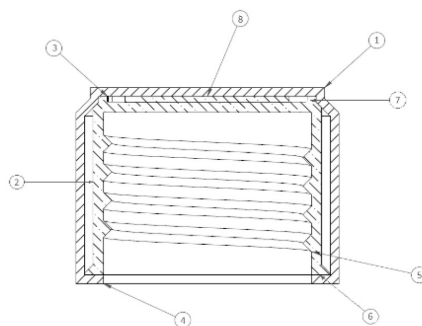


Figura 2.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): B 65 D 55/02, B 65 D 50/04.

3. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

Las reivindicaciones 1 a 9 no son claras porque:

- Las expresiones: “(...) *gira con respecto a la tapa interna*”, “(...) *se impregnan con una tinta indeleble*” (Reiv. 1), corresponden a características funcionales, las cuales aunque explican la relación que hay entre diversas características estructurales y pueden estar incluidas en las reivindicaciones, no definen la invención; de tal manera que no se tienen en cuenta para el estudio de patentabilidad.
- Las expresiones: “(...) *un material incoloro o transparente que puede ser un polímero*” (Reiv. 2); “(...) *espuma o material absorbente*” (Reiv. 5), son expresiones no limitativas que no restringen las características técnicas de la materia a proteger. Se sugiere cambiar dichas expresiones por términos concretos.
- La expresión: “(...) *una pieza tubular*” (Reiv. 4); sugiere de forma imprecisa que la protección se extiende a otras posibles variaciones o modificaciones, por lo tanto, no es clara ya que no define la materia a proteger. Se sugiere sustituir dichas expresiones por términos concretos.

- La expresión: “(...) en donde los contenedores de tinta (8) contienen o se impregnan con una tinta indeleble” (Reiv. 1) caracteriza un producto por la sustancia que está en el interior de un contenedor, lo cual no define a la tapa en su conformación estructural. Se sugiere retirar.

4. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de patente nacional: noviembre 23 de 2015, y se encontraron los siguientes documentos que anticipan el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación
D1	US5265744	“Tamper-proof cap”	30/Noviembre/1993
D2	US3472411	“Safety closure for a bottle”	14/Octubre/1969
D3	WO9924329	“Tamper evident closure”	20/Mayo/1999

El documento D1¹ divulga un tapón a prueba de manipulación para contenedores, botellas y similares que comprende un primer miembro accionado y un segundo miembro de accionamiento montado concéntricamente sobre el primer elemento y que tiene una ventana por la que una señal visible puede ser observados por un espectador. (Resumen).

El documento D2² divulga una tapa de botella que está encerrado dentro de un elemento de cubierta. Partes de trinquete de bloqueo de la tapa al miembro de cubierta para un sentido de giro para atornillar el tapón en una botella. (Resumen).

El documento D3³ divulga un medio de cierre a prueba de manipulaciones que comprende un medio de depósito sellado, que contienen un medio para manchar, un medio de transferencia, un medio de ventana y uno de ruptura medios, mediante el cual, después de la apertura de los medios de cierre a prueba de manipulaciones, la ruptura significa rompe los medios de depósito sellado y el colorante significa flujos a través de los medios de transferencia a la ventana significa indicando de este modo la manipulación de un usuario. (Resumen).

5. Examen de Patentabilidad (Art 14 D486)

Novedad (Art 16 D486)

La reivindicación 1 consiste en: “Un dispositivo de doble tapa para evidenciar la apertura o manipulación de un recipiente y que corresponde a la tapa del recipiente ubicada en la parte superior del mismo, dicho dispositivo caracterizado porque comprende...” (Ver pág. 3 del Radicado N° 15-279221-00000-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D1	D2	D3
Una tapa externa (1).	Un primer miembro accionado. (Reiv. 1),	Un elemento de cubierta que encierra el miembro de tapa sobre la botella, elemento de cubierta que	Una segunda parte, exterior (7). (Pág. 6, Líneas 29 y 30)

1http://worldwide.espacenet.com/publicationDetails/originalDocument?CC=US&NR=5265744A&KC=A&FT=D&ND=3&date=19931130&DB=&locale=en_EP

2http://worldwide.espacenet.com/publicationDetails/originalDocument?CC=US&NR=3472411A&KC=A&FT=D&ND=3&date=19691014&DB=EPODOC&locale=en_EP

3http://worldwide.espacenet.com/publicationDetails/originalDocument?CC=WO&NR=9924329A1&KC=A1&FT=D&ND=3&date=19990520&DB=&locale=en_EP

		tiene paredes laterales cilíndricas montadas para girar alrededor del miembro de tapa. (Reiv. 1)	
Una tapa interna (2)	Un segundo miembro de accionamiento montado de manera concéntrica para rotación sobre el primer elemento. (Reiv. 1)	Un miembro de tapa adaptada para ser enroscado y asegurado a la botella. (Reiv. 1)	Una primera parte interior (3) (Pág. 6, Líneas 29 y 30)
Unas cuñas externa (4) e interna (6) que acoplan la tapa externa (1) y la interna (2).	Medios para acoplar de forma estanca dicha abertura de dicho recipiente después de la rotación de dicho miembro accionado en una primera dirección y para retirar dicho primero elemento accionado de dicha abertura de dicho recipiente después de la rotación en una segunda dirección. (Reiv. 1)	Las bridas (28) y (29) serán asegurar el miembro de cubierta (23) sobre la tapa (22), que permite el movimiento de rotación pero impidiendo cualquier movimiento axial sustancial del elemento de cubierta (23) con respecto a la tapa (22). (Pág. 6, Col. 2, Líneas 25 a 30)	Medios para mantener el cierre..., se muestran esquemáticamente como una banda extraíble (11).
Un tope anti-giro interno (3), que se encuentra en la parte superior de la tapa interna (2).	Una cuña en dicho segundo miembro de accionamiento. (Reiv. 2)	Partes de acoplamiento comprenden una pluralidad de depresiones redondeadas uniformemente espaciadas en un círculo alrededor de una superficie de uno de los miembros. (Reiv. 2)	La parte externa (7) se ha agudizado con porciones (8) para la ruptura de los medios de sellado / transferencia (5) de la parte interior (3) a sus funciones. (Pág. 7, Líneas 4 a 7).
Un tope anti-giro externo (7) que se encuentra en la parte inferior de la tapa externa (1).	Una ranura de chaveta en dicho primer miembro accionado. (Reiv. 2)	Una correspondiente pluralidad de protuberancias redondeadas uniformemente espaciadas en un correspondiente circunferencia alrededor de la superficie opuesta del otro miembro, dichas depresiones redondeadas estando dimensionados y posicionados para recibir los salientes redondeados. (Reiv. 2)	
Uno o más contenedores de tinta (8).	Una cápsula rompible que contiene los medios de comunicación de señales y siendo soportado sobre dicho miembro primero impulsado para la visualización de una señal de primera característica a través de dicha ventana. (Reiv. 1)	Diafragma flexible continua e ininterrumpida de cierre sobre el miembro de tapa dicho miembro de tapa, dicho diafragma flexible ser deformable por el que el diafragma puede ser presionado por la presión externa ejercida contra ella. (Reiv. 3)	La parte interior (3) tiene un depósito anular (4) que contiene un tinte de color. (Pág. 6, Líneas 32 a 35)

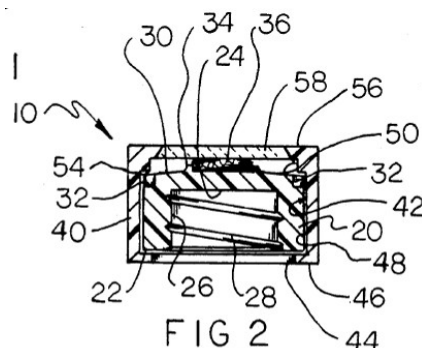
De acuerdo con la tabla anterior, las características esenciales del dispositivo de la reivindicación 1 habían sido divulgadas previamente en los documentos D1 a D3, por lo tanto, la materia reivindicada no es nueva.

Asimismo, el documento D1 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 2: Se comprenderá sin embargo, que en la práctica de la invención, otros, materiales rompibles delgados y transparentes pueden

utilizarse en lugar como una amplia gama de materiales poliméricos disponibles. (Pág. 8, Col. 2, Líneas 45 a 50).

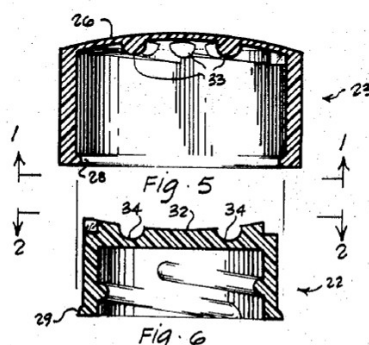
- Reivindicación 3: Una cuña en dicho segundo miembro de accionamiento... una ranura de chaveta en dicho primer miembro accionado (Reiv. 2).
- Reivindicación 4: Pieza tubular que comprende una rosca (28), ranura inferior (48), el contenedor de tinta (36) y el tope anti-giro interno (32) (Fig. 2)



- Reivindicación 5: Cápsula transparente (36) que contiene una colorante líquido de color (Fig. 7) 38. De acuerdo con la invención, la cápsula (36) se fabrica de un material adecuado delgado, membranoso que es fácilmente rompible cuando se expone a una fuerza relativamente ligera. (Pág. 8, Col. 2, Líneas 40 a 45).
- Reivindicaciones 6 y 9: la cápsula (36) que contiene el colorante líquido (38) normalmente reposa dentro del anillo (34) en el centro de la superficie superior (30) del miembro accionado (20). (Pág. 8, Col. 2, Líneas 50 a 55)

El documento D2 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 2: El elemento de cubierta (23) puede ser moldeado de un plástico que es algo flexible o elástico, tal que la brida que se extiende hacia dentro (28) en el miembro de cubierta (23) puede ser forzado sobre la brida se extiende hacia fuera o en la cabeza (29) de la tapa (22). (Pág. 6, Col 2, Líneas 25 a 30).
- Reivindicación 3: El elemento de cubierta está formada con salientes redondeados (33) se extiende hacia abajo; y la tapa (22) está formada con depresiones complementarias (34). (Pág. 5, Col 1, Líneas 29 a 34, Figs. 5 y 6).



El documento D3 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 2: Un medio de cierre a prueba de manipulaciones (10) según cualquiera de las reivindicaciones anteriores, que comprende además medios de lentes (6) para la prestación de los medios de ventana (9) más visible para un usuario. (Reiv. 5)

- Reivindicación 3: La parte externa (7) se ha agudizado con porciones (8) para la ruptura de los medios de sellado / transferencia (5) de la parte interior (3) a sus funciones. (Pág. 7, Líneas 4 a 7).
- Reivindicación 4: Los medios de cierre se utilizan para cerrar un envase (1), tal como un frasco de medicina que tiene un cuello roscado (2) para recibir los medios de cierre (10). (Pág. 6, Líneas 24 a 27, Fig. 1)

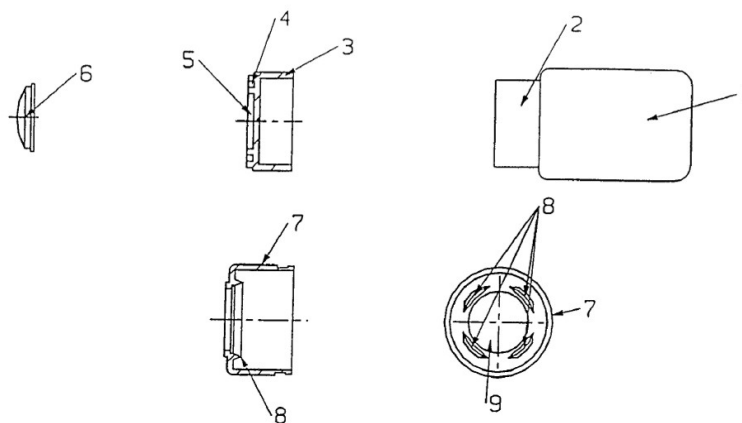


Fig 1

- Reivindicaciones 5, 6 y 9: La parte interior (3) tiene un depósito anular (4) que contiene un tinte de color. El depósito (4) está sellado por una cubierta de lámina (5) o similar que se superpone por una capa de material absorbente tal como papel secante o similar. (Pág. 6, Líneas 32 a 36).

6. Conclusión

Los requisitos de Patentabilidad de la presente solicitud están afectados así:

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D1	US5265744	1, 2 a 5, 6 y 9	Novedad
D2	US3472411	1 a 3	Novedad
D3	WO9924329	1, 2 a 6 y 9	Novedad

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de treinta (30) días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Si como respuesta a este requerimiento el solicitante llegara a modificar: i) el capítulo reivindicatorio, ii) la descripción de la invención a proteger, iii) o presente un nuevo capítulo reivindicatorio, y desee que se realice un nuevo examen de patentabilidad a esta modificación, no deberá pagar la tasa de modificación voluntaria pero sí la correspondiente a la tasa de examen de patentabilidad. En todo caso, el número de requerimientos por no patentabilidad estará supeditado a que el término del estudio de patentabilidad no sea superior a 9 meses, contados desde la publicación de la solicitud de patente de modelo de utilidad. Adicionalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones deberá pagar la tasa por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2016-05-31

Elaboró: Oscar Ivan Orduz Berdugo
Revisó: Rachid Ponce Vergel

Search history

Search 1: PN=(US3472411) (Results 1)

Search 2: SFT=(blot or stain) and IC=(B65D55/02 or B65D50/04) (Results 49)

Search 3: SFT=(blot or stain and tamper*) and IC=(B65D55/02 or B65D50/04) (Results 20)

Search 4: SFT=(tamper* and (cap or closure or lid) and (ink or blot)) and IC=(B65D55/02 or B65D50/04) (Results 126)

Search 5: SFT=(tamper* and (cap or closure or lid) and (ink or blot) and indicat*) and IC=(B65D55/02 or B65D50/04) (Results 116)

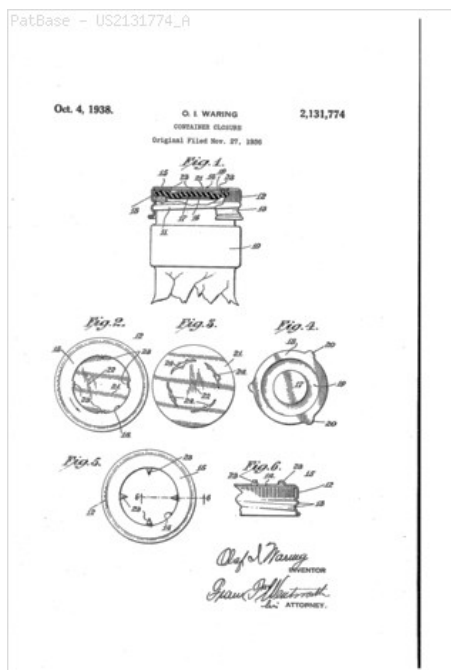
Search 6: SFT=(tamper* and (cap or closure or lid) and (ink or blot) and indicat* and threa*) and IC=(B65D55/02 or B65D50/04) (Results 50)

Abstract: Source: US2131774A 1. A container **closure** embodying therein a metal shell having a screw **threaded** skirt and an opening through the top thereof, a disc of rupturable material within said shell and exposed through said opening, a liner or gasket of compressible friction material within said shell, a plate having a recessed portion between said gasket and said disc, and a prong extending inwardly of the opening through the top of said shell and adapted, after the sealing of a container, to be forced, downwardly to penetrate the portion of said disc across the recessed portion of said plate, whereby rotary movement of said shell to remove said **closure** will cause the tearing of said disc to an extent to prevent its re-use.

International (IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

European: B65D55/02

US: 215/250 215/257 215/341 215/365 220/258.4



Family:

Publication number	Publication date	Application number	Application date
US2131774 A	19381004	US19360112883	19361127

Priority:

US19360112883 19361127

Probable Assignee: GUTMANN AND CO FERD

Assignee(s): (std): GUTMANN AND CO FERD

Assignee(s): FERDINAND GUTMANN AND CO

Inventor(s): (std): WARING OLAF I

Title: MEANS FOR SEALING A BOTTLE OR THE LIKE

Abstract: Source: US2888159A (Claim 1) 1, In combination with a bottle having a **threaded** neck portion defining a dilling opening into the bottle, a **closure** covering said opening and **threaded** around said neck portion and a multi-layered sealing strip secured around the outside of said **closure** and the neck portion therebelow and adhered to both, said sealing strip having a non-water soluble transparent outer facing layer overlying an outermost colored layer which is of a color which contrasts substantially with the color of the subjacent layer of the sealing strip and which is less securely bonded to said subjacent layer than said subjacent layer is bonded to the bottle neck and **closure** and said transparent outer layer is bonded to said outer colored layer, and said strip being weakened to form a tear line at the bottom of the **closure**, whereby the unthreading of the bottle **cap** will tear the sealing strip generally along the tear line and cause the outermost colored layer of the sealing strip to pull away from the subjacent layer of the strip to expose the contrasting color of the subjacent layer to **indicate** that the seal of the bottle has been broken.

Classifications:

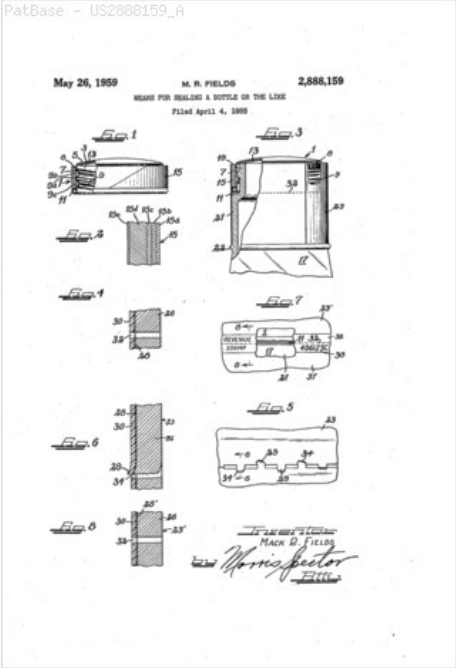
International (IPC 8-9): B65D55/08 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D41/34

CPC: B65D55/0818

European: B65D55/08B

US: 215/230 215/252 40/310 40/311



Family:

Publication number	Publication date	Application number	Application date
US2888159 A	19590526	US19550499032	19550404

Priority:

US19550499032 19550404

Probable Assignee: FIELDS MACK R

Assignee(s): (std): FIELDS MACK R

Inventor(s): (std): FIELDS MACK R

Title: **Tamper indicating closure**

Abstract: Source: US4446979A A **tamper indicating closure** including an outer **cap** and an inner liner which relies on relative movement of the outer **cap** and the inner liner during opening movement to **indicate tampering** of the container after it has been sealed for the first time, the relative movement being insured by a means which coact with the container to resist rotation of the liner and maintain the container in a sealed condition while the outer **cap** is being rotated in an opening direction. Once opened, the outer **cap** and the inner liner are maintained in a position for movement as a unit in both the opening and closing direction of the **closure**.

Classifications:

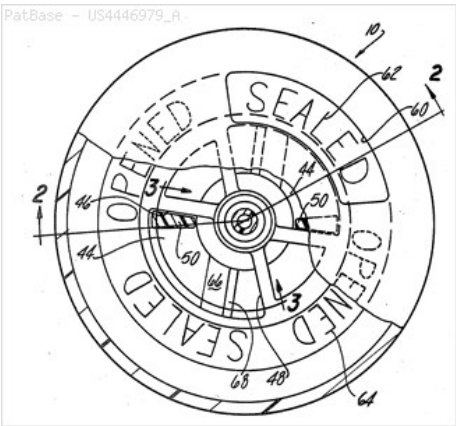
International (IPC 8-9): B65D41/28 B65D41/34 B65D55/02 (Advanced/Invention); B65D41/34 (Advanced/Non-invention); B65D41/02 B65D55/02 (Core/Invention)

International (IPC 1-7): A61J1/00 B65D41/04 B65D41/34 B65D51/24 B65D55/02 B65D85/56 G06F13/06

CPC: B65D41/28 B65D55/026

European: B65D41/28 B65D55/02G

US: 215/203 215/211 215/220



Family:

Publication number	Publication date	Application number	Application date
AU198285306 A1	19830414	AU19820085306	19820624
AU198424406 A1	19840823	AU19840024406	19840209
AU548791 B2	19860102	AU19820085306	19820624
AU573568 B2	19880616	AU19840024406	19840209
CA1182428 A1	19850212	CA19820409005	19820809
CA1248912 A1	19890117	CA19840447240	19840213
DE3224463 A1	19830421	DE19823224463	19820630
DE3405188 A1	19840816	DE19843405188	19840214
DE8404384 U1	19880630	DE19840004384U	19840214
FR2514329 A1	19830415	FR19820013910	19820810
FR2514329 B1	19870306	FR19820013910	19820810
FR2541241 A1	19840824	FR19840002223	19840214
GB2107290 A1	19830427	GB19820019348	19820705
GB2107290 B2	19841205	GB19820019348	19820705
GB2134892 A1	19840822	GB19840003496	19840210
GB2134892 B2	19860910	GB19840003496	19840210
GB8403496 A0	19840314	GB19840003496	19840210
JP58064956 A2	19830418	JP19820127757	19820723
JP59209542 A2	19841128	JP19840024548	19840214
NZ201002 A	19850816	NZ19820201002	19820617
NZ207148 A	19870123	NZ19840207148	19840214
US4446979 A	19840508	US19830466058	19830214
ZA8204561 A	19831228	ZA19820004561	19820625
ZA8401042 A	19850925	ZA19840001042	19840213

Priority:
US19810310081 19811009 CA19820409005 19820809 US19830466058 19830214
CA19840447240 19840213

Probable Assignee: SUNBEAM PLASTICS CORP
Assignee(s): (std): SUNBEAM PLASTICS CORP
Assignee(s): SUNBEAM PLASTICS CORP EVANSVILLE IND US ; BUSH RANDALL G ; GACH PETER P
Inventor(s): (std): BUSH R G ; BUSH RANDALL G ; BUSH RANDALL GRAHAM ; BUSH RANDELL G ; GACH P P ; GACH PETER P ; GACH PETER PAUL ; RANDARU JII BUTSUSHIYU ; RANDALL G BUSH ; PIITAA PII GATSUCHI ; PETER P GACH ; PETER GACH ET RANDALL BUSCH ; GACH PP ; GACH PETER ; BUSH RG ; BUSCH RANDALL
Inventor(s): G BUSH RANDALL ; P GACH PETER ; PETER PAUL GACH ; RANDALL GRAHAM BUSH ; NAME NOT GIVEN ; PETER P GACH ET RANDALL G BUSH
Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP

Abstract: Source: US4792053A A **tamper-indicating** capped container includes an **indicating** member sealed across the container access port and the container **cap** is transparent and has capability for effecting visible change in the **indicating** member selectively in the course of container-opening sense movement of the **cap**. Tines may depend in cantilever manner from the **cap** interior to provide for tearing of the **indicating** member and the **indicating** member may be paper sheet material or a color change telltale.

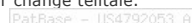
International (IPC 8-9): B65D41/04 B65D55/02 B65D55/06 (Advanced/Invention);
B65D41/04 B65D55/02 (Advanced/Non-invention);
B65D41/04 B65D55/02 (Core/Invention)

International (IPC 1-7): B65D41/00 B65D41/04 B65D41/32 B65D49/12 B65D51/00 B65D51/22 B65D53/04 B65D55/00 B65D55/02

CPC: B65D55/066

European: B65D55/06D

US: 215/250 215/350 220/214 220/278 220/377



Publication number	Publication date	Application number	Application date
AU198321059 A1	19840517	AU19830021059	19831108
AU569853 B2	19880225	AU19830021059	19831108
BRP18306226 A	19840619	BR1983P106226	19831111
DK515583 A	19840513	DK19830005155	19831111
DK515583 A0	19831111	DK19830005155	19831111
EP0109592 A2	19840530	EP19830111025	19831104
EP0109592 A3	19850807	EP19830111025	19831104
ES275668 Y	19850301	ES19830275668U	19831111
FI834146 A	19840513	FI19830004146	19831111
FI834146 A0	19831111	FI19830004146	19831111
IL70118 A0	19840229	IL19830070118	19831102
IL70118 A1	19831102	IL19830070118	19831102
JP59103855 A2	19840615	JP19830210688	19831109
KR840006790 A	19841203	KR19830005380	19831112
NO158130 B	19880411	NO19830004099	19831110
NO158130 C	19880720	NO19830004099	19831110
NO834099 A	19840514	NO19830004099	19831110
NZ206140 A	19860910	NZ19830206140	19831103
US4792053 A	19881220	US19820441112	19821112
ZA8308352 A	19841224	ZA19830008352	19831109

US19820441112 19821112

Probable Assignee: TBL DEV CORP

Assignee(s): (std): TBL DEV CORP ; TBL DEVELOPMENT CORP ; TEII BII ERU DEV CORP

Inventor(s): (std): BROWN E M ; LESTER W M ; TOWNS E J ; WILLIAM M LESTER ; EDWARD M BROWN ; EDWARD J TOWNS ; BORWN EDWARD M ; UIRIAMU EMU RESUTAA ; TOWNS EJ ; LESTER WM ; EDWARD M BORWN ; EDOWAADO JIET TAUNZU ; EDOWAADO EMU BURAU ; BROWN EN ; TOWNS EDWARD J ; LESTER WILLIAM M ; BROWN EDWARD M

Agent(s): PHILLIPS ORMONDE FITZPATRICK; REINHOLD COHN AND PARTNERS

Designated states: AT BE CH DE FR GB IT LI LU NL SE

Title: **Tamper** visible **indicator** for container **lid**

Abstract: Source: US4480760A A disc or other insert placed on the neck of a container provides a visible **indication** that the **lid** of the container had been removed or **tampered** with. An **indicator** is provided on the disc surfaces and it changes its character to provide its **indication** upon removal of the **lid**. For example, the **indicator** might be microencapsulated, and the microcapsules would be broken upon separation of the discs. Means in the **lid** rub the **indicator** for activating it. In a variant of this, the **lid** is transparent and permits viewing of the **indicator** through the **lid**. The disc may have a layer under the **indicator** for compensating for manufacturing tolerances.

Classifications:

International (IPC 8-9): B65D51/18 B65D55/02 B65D55/06 (Advanced/Invention); B65D51/18 (Core/Invention)

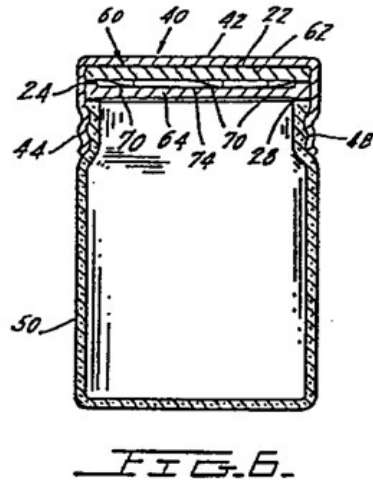
International (IPC 1-7): B65D51/18 B65D55/02

CPC: B65D55/026 B65D55/066

European: B65D55/02G B65D55/06D

US: 215/230

PatBase - US4480760_A



Family:

Publication number	Publication date	Application number	Application date
EP0111900 A2	19840627	EP19830112637	19831215
EP0111900 A3	19850731	EP19830112637	19831215
JP59124274 A2	19840718	JP19830241813	19831221
US4480760 A	19841106	US19830484636	19830413
US4519515 A	19850528	US19830558807	19831207

Priority:

US19820451794 19821221 US19830484636 19830413 US19830549975 19831109
US19830558807 19831207

Probable Assignee: SCHONBERGER MILTON

Assignee(s): (std): MIRUTON SUKONBAAGAA ; SCHONBERGER MILTON

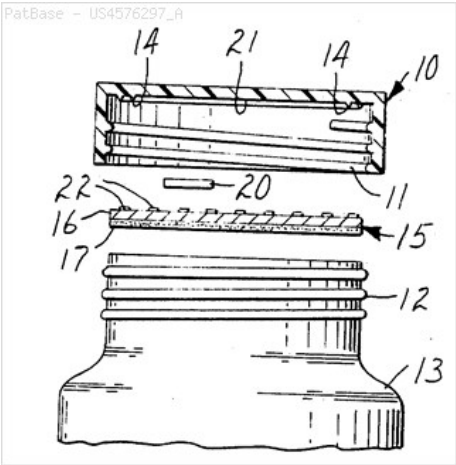
Inventor(s): (std): MIRUTON SUKONBAAGAA ; SCHONBERGER MILTON

Designated states: DE FR GB IT

Title: **Tamper** resistant **closure**

Abstract: Source: US4576297A A **tamper-indicating** container seal for use with sealed containers comprising a translucent **cap**, having a rupturable membrane placed in the **cap** which is adapted to seal to the container and means, such as a deposit of adhesive, are provided to bond a portion of the rupturable membrane to the **cap**.

Classifications:
International (IPC 8-9): B65D51/24 B65D53/04 B65D55/02
B65D55/06 (Advanced/Invention);
B65D51/24 B65D55/02 (Core/Invention)
International (IPC 1-7): B65D41/34 B65D51/24 B65D53/04 B65D55/02
CPC: B65D55/066 B65D55/02
European: B65D55/02 B65D55/06D
US: 215/250 215/347 215/350



Family:

Publication number	Publication date	Application number	Application date
CA1264303 A1	19900109	CA19840465681	19841017
EP0164370 A1	19851218	EP19840904304	19841116
JP61500424 T2	19860313	JP19840504299	19841116
US4576297 A	19860318	US19850742131	19850606
WO8502165 A1	19850523	WO1984US01865	19841116

Priority:
US19830553988 19831121 US19830553502 19831121 US19850742131 19850606
CA19840465681 19841017

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s): (std): MINNESOTA MINING AND MFG

Assignee(s): UNIPAC CORP ; MINNESOTA MINING AND MANUFACTURING COMPANY ; MINNESOTA MINING AND MFG CO ; ILLINOIS TOOL WORKS INC ; LARSON CURTIS L ; MASSACHUSETTS MUTUAL LIFE INSURANCE CO ; MASSMUTUAL CORPORATE INVESTORS ; MASSMUTUAL PARTICIPATION INVESTORS

Inventor(s): (std): LARSON CURTIS L ; MANSKE WENDELL J

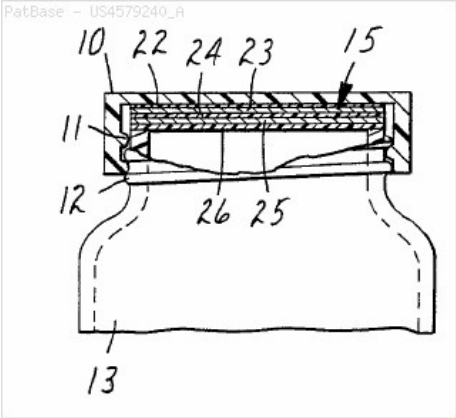
Agent(s): SMART AND BIGGAR

Designated states: AT BE CH DE FR GB JP LU NL SE

Title: **Tamper indicating cap** assembly

Abstract: Source: US4579240A A **tamper indicating** cover has at least a portion of the top being translucent or transparent and a seal adhered to the cover and container in such a manner that relative rotation between the cover and container ruptures the seal and provides a visible **indication** that the container has been opened.

Classifications:
International (IPC 8-9): B65D55/06 (Advanced/Invention);
B65D55/02 (Core/Invention)
International (IPC 1-7): B65D51/00
CPC: B65D55/066
European: B65D55/06D
US: 215/230 215/232



Family:

Publication number	Publication date	Application number	Application date
US4579240 A	19860401	US19840669882	19841109

Priority:

US19840669882 19841109

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s): (std): MINNESOTA MINING AND MFG

Assignee(s): UNIPAC CORP ; MINNESOTA MINING AND MANUFACTURING COMPANY ; MINNESOTA MINING AND MFG CO ; ILLINOIS TOOL WORKS INC ; MASSACHUSETTS MUTUAL LIFE INSURANCE CO ; MASSMUTUAL CORPORATE INVESTORS ; MASSMUTUAL PARTICIPATION INVESTORS

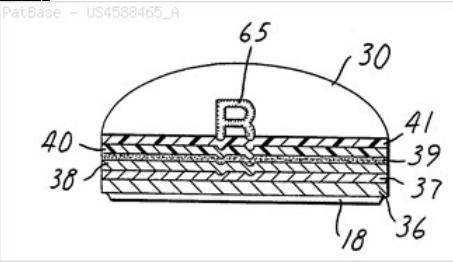
Inventor(s): (std): OU YANG DAVID T

Title: METHOD FOR FORMING A SEALED CONTAINER

Abstract: Source: US4588465A The barrier in a closure liner can be formed with a distinctive design or logo when the closure liner is inserted in the cap by placing a male embossing die against the sealing layer of the closure liner with sufficient force to emboss an image in the foil layer. The embossing of indicia into the liner at the time the cap is to be placed on the container provides the manufacturer with his own distinctive logo which cannot be readily duplicated thus making the container closure tamper-resistant.

Classifications:

International (IPC 8-9): B21D51/38 B32B15/08 B32B3/30 B44B5/00 B44B5/02 B65D51/24 (Advanced/Invention); B21D51/38 B44B5/00 B65D51/24 (Core/Invention)
International (IPC 1-7): B31F1/00 B32B15/08 B32B3/30 B32B31/00 B65D53/04 B65D55/02
CPC: Y10T156/1041 Y10T156/1044 Y10T156/1077 B44B5/0009 B21D51/383 B44B5/0019 B44B5/026 B65D51/245 Y10T428/24612
European: B21D51/38B B44B5/00A2 B44B5/00A4 B44B5/02D B65D51/24F
US: 156/220 156/222 156/265 156/306.6 215/230 215/232 215/347 264/268 264/509 428/172



Family:

Publication number	Publication date	Application number	Application date
CA1224398 A1	19870721	CA19840446388	19840131
US4588465 A	19860513	US19830464120	19830204
US4650082 A	19870317	US19850768488	19850822

Priority:

US19830464120 19830204 CA19840446388 19840131 US19850768488 19850822

Probable Assignee: MINNESOTA MINING AND MFG

Assignee(s): (std): MINNESOTA MINING AND MFG

Assignee(s): UNIPAC CORP ; MINNESOTA MINING AND MANUFACTURING COMPANY ; PACIOREK WALTER J ; MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MFG CO A CORP OF DEL ; ILLINOIS TOOL WORKS INC ; MASSACHUSETTS MUTUAL LIFE INSURANCE CO ; MASSMUTUAL CORPORATE INVESTORS ; MASSMUTUAL PARTICIPATION INVESTORS

Inventor(s): (std): PACIOREK WALTER J

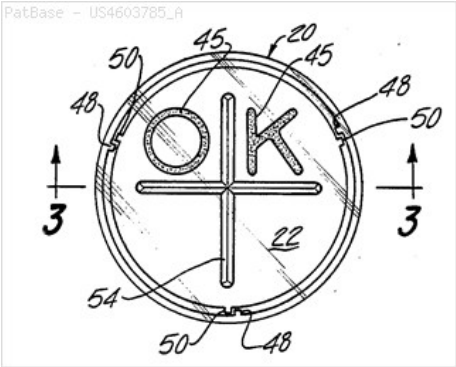
Agent(s): SMART AND BIGGAR

Title: **Tamper indicating closure**

Abstract: Source: US4603785A A **tamper indicating closure** including a transparent outer **cap** and an inner insert disc with an integral depending plug seal which relies on the relative movement of the outer **cap** and the inner disc during opening movement to **indicate tampering** of the container after it has been sealed for the first time. The relative movement is insured by the fact that the plug seal coacts with the container to resist rotation of the insert disc maintaining the container in a sealed condition while the outer **cap** is being rotated in an opening direction. The inside top surface of the clear outer **cap** is printed with a message such as "OK" or "SECURE" in an **ink** which is removable by a wiping action. The upper surface of the disc has ridges or wipers which remove all or part of the message upon initial opening. During the initial application of the **closure** to the container, friction between the plug seal and the container keeps the outer **cap** and insert disc together through cooperating drive lugs as the **closure** is screwed onto the bottle so that the message is undisturbed.

Classifications:

International (IPC 8-9): B65D41/04 B65D55/02 B65D55/06 (Advanced/Invention);
B65D41/04 (Advanced/Non-invention);
B65D41/04 B65D55/02 (Core/Invention)
International (IPC 1-7): B65D41/04 B65D41/34 B65D41/38 B65D51/18 B65D55/00
B65D55/02 B65D55/14
CPC: B65D55/066
European: B65D55/06D
US: 215/230



Family:

Publication number	Publication date	Application number	Application date
AU198549830 A1	19860529	AU19850049830	19851113
CA1259276 A1	19890912	CA19850494874	19851108
DE3541016 A1	19860522	DE19853541016	19851119
FR2573392 A1	19860523	FR19850016991	19851118
FR2573392 B3	19870327	FR19850016991	19851118
GB2167393 A1	19860529	GB19850028377	19851118
GB2167393 B2	19880824	GB19850028377	19851118
GB8528377 A0	19851224	GB19850028377	19851118
JP61127453 A2	19860614	JP19850256834	19851118
NZ214074 A	19870930	NZ19850214074	19851105
US4603785 A	19860805	US19840673013	19841119

Priority:

US19840673013 19841119 CA19850494874 19851108

Probable Assignee: SUNBEAM PLASTICS CORP

Assignee(s): (std): SUNBEAM PLASTICS CORP

Assignee(s): GACH PETER P

Inventor(s): (std): GACH P P ; GACH PETER P ; GACH PETER PAUL ; PIITAA PII GATSUCHI

Inventor(s): P GACH PETER ; PETER P GACH ; PETER PAUL GACH

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP

Title: Container and closure with tamper indicating means

Abstract: Source: US4601404A This invention relates to an improvement in a container for liquids or solids which container is made of either plastic or glass or other transparent or translucent material and wherein there is a combination adapted to show any tampering with the container. The improvement being a closure made of a two piece cap wherein both pieces overlap and sandwich a portion of the tamper indicator therein-between. The invention provides a practical means for indicating any tampering with or opening of the container by an indelible mark of ink made by movement of a ball on the inside wall of a transparent tube connected to the container.

Classifications:

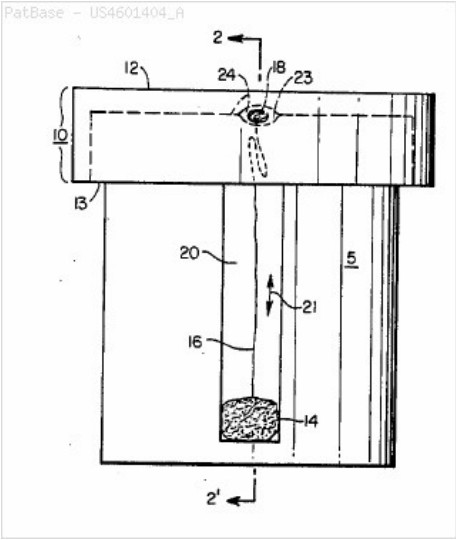
International (IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D55/02

CPC: B65D55/026

European: B65D55/02G

US: 215/230 215/365



Family:

Publication number	Publication date	Application number	Application date
US4601404 A	19860722	US19850725917	19850422

Priority:

US19850725917 19850422

Probable Assignee: SHIVERS HORACE L

Assignee(s): (std): SHIVERS HORACE L

Inventor(s): (std): SHIVERS HORACE L

Title: **TAMPER** EVIDENT OPTICALLY VARIABLE DEVICE AND ARTICLE UTILIZING THE SAME

Abstract: Source: US4721217A **Tamper** evident optically variable device comprising an optically variable device having at least first and second layers with a spacer layer therebetween providing a color shift with change in viewing angle. A release layer is disposed between the first and second layers to permit the first and second layers to be separated from each other and to thereby destroy the optical shifting properties of the optically variable device.

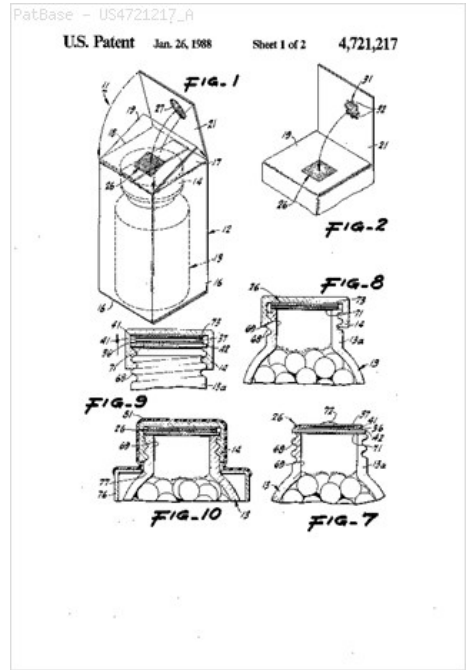
Classifications:

International (IPC 8-9): B65D55/02 B65D55/06 G02B5/28 G09F3/03 (Advanced/Invention); B65D55/02 G02B5/28 G09F3/03 (Core/Invention)

International (IPC 1-7): B65D55/02 G02B5/28 G09F3/03 **CPC:** B65D55/026 Y10S206/807 B65D55/066

European: B65D55/02G B65D55/06D

US: 206/459 206/459.1 206/807 215/230 229/102 350/166 359/582 359/585 359/838 359/883



Family:

Publication number	Publication date	Application number	Application date
AT68433 E	19911115	AT19870306825T	19870731
CA1293706 A1	19911231	CA19870543837	19870806
DE3773803 D1	19911121	DE19873773803	19870731
EP0257835 A1	19880302	EP19870306825	19870731
EP0257835 B1	19911016	EP19870306825	19870731
ES2028086 T3	19920701	ES19870306825T	19870731
GR3003095 T3	19930217	GR19910401712T	19911107
JP63125164 A2	19880528	JP19870198004	19870807
US4721217 A	19880126	US19860894320	19860807
US4840281 A	19890620	US19880147891	19880125
US5005719 A	19910409	US19890368200	19890619

Priority:

US19860894320 19860807	JP19040001980 19870708	EP19870306825 19870731
US19880147891 19880125	US19890368200 19890619	CA19870543837 19870806

Probable Assignee: JDS UNIPHASE CORP

Assignee(s): (std): OPTICAL COATING LABORATORY INC ; FLEX PRODUCTS INC

Assignee(s): FLEX PRODUCTS INC 2789 NORTHPOINT PARKWAY BUILDING ; BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIA ; BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION ; JDS UNIPHASE CORP ; OPTICAL COATING LAB INC ; OPTICAL COATING LABORATORY INC A CORP OF CA ; FLEX PRODUCTS INC 2793 NORTHPOINT PARKWAY SANTA RO ; KAMERLING MARC A ; GOSSETT WAYNE L ; FLEX PRODUCTS INC 2789 NORTHPOINT PARKWAY BUILDING D SANTA ROSA CA 95402 7397 A CORP OF DE ; OPTICAL COATING LABORTORY INC ; OPTICAL COATING LABORATORY INC SANTA ROSA CALIF US ; SPELLMAN VERNON C ; PHILLIPS ROGER W

Inventor(s): (std): UEIN ERU GOSETSUTO ; SPELLMAN VERNON C ; ROIYAA DABURIYUU FUIRITSUPUSU ; MARUKU EI KAMAARINGU ; BUAANON SHII SUPERUMAN ; TODD DAVID W ; SPELLMANN VERNON C ; SILVER STEVEN A ; PHILLIPS ROGER W ; KAMERLING MARC A ; GOSSETT WAYNE L ; COOMBS PAUL G

Inventor(s): KAMERLING MARC A SANTA ROSA CALIFORNIA 95405 US

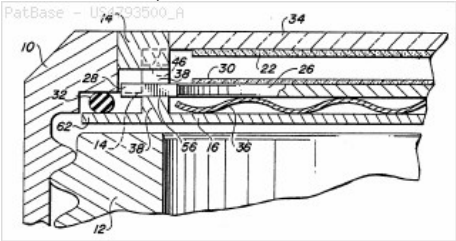
Agent(s): SMART AND BIGGAR

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

Title: **Tamper indicator**

Abstract: Source: US4793500A A **tamper indicator** includes a first **indicator** element coupled to a first cylindrical element, a second **indicator** element positioned within a second cylindrical element and displaceable between a first position spaced apart from the first **indicator** element and a second position contacting the first **indicator** element. The first **indicator** element changes visual states when it contacts the second **indicator** element. A biasing device biases the first **indicator** element toward the second **indicator** element. A locking system maintains the first and second **indicator** elements in a locked, spaced apart configuration while the first and second cylindrical elements remain in a first location. The locking device enables relative movement to occur between the first and second **indicator** elements after the first and second cylindrical elements have been displaced from the first position into a second position. The locking device enables the biasing device to displace the first and second **indicator** elements together to establish contact and to effect the change in visual state of the first **indicator** element upon displacement of the first and second cylindrical elements from the second position into a third position.

Classifications:
International (IPC 8-9): B65D55/06 (Advanced/Invention);
B65D55/02 (Core/Invention)
International (IPC 1-7): B65D55/02
CPC: B65D55/066
European: B65D55/06D
US: 116/307 215/230



Family:

Publication number	Publication date	Application number	Application date
US4793500 A	19881227	US19870119389	19871110
US4872570 A	19921010	US19880271647	19881116

Priority:
US19870119389 19871110 US19880271647 19881116

Probable Assignee: HARDING CLAUDE J
Assignee(s): (std): HARDING CLAUDE J
Inventor(s): (std): HARDING CLAUDE J

Title: **TAMPERPROOF** PACKAGE AND METHOD

Abstract: Source: US4813541A A hermetic multi-barrier **tamperproof** package for encasing articles such as pharmaceutical products and the like, is disclosed. The package comprises: a first container typically being made of a substantially impervious plastic material into which the articles to be protected are placed prior to hermetically sealing the container so as to enclose the articles, and so as to further enclose normal atmosphere air within the container. A second container typically being made of a substantially impervious plastic material completely encloses the first container. The first and second containers are simultaneously separated from and connected to one another by attaching means comprising one or a number of discs having apertures in their centers, so as to allow a hermetic cavity defined between the first and second containers to extend continuously therebetween. A sensor comprising a select chemical or material is inserted within the cavity, and a select atmosphere such as a substantially evacuated atmosphere is simultaneously introduced within the cavity. The sensor and the select atmosphere co-operatively comprise a package integrity **indicating** sensor system where the sensor is simultaneously reactive to normal atmosphere air, and reversibly responsive to the presence or absence of the select atmosphere. A breach in package integrity will result in a loss of the select atmosphere and in exposure of the sensor to the normal atmosphere air enclosed within the first container and/or to the exterior atmosphere, whereby a chemical or physical response will occur that will produce an **indication** appealing to the sense of sight, touch, or smell at the point of puncture, or within the cavity that could evidence a package **tampering**. At least the first container incorporates sealingly associated **cap** and body portions being provided with recloseable **closure** means. Alternatively, the select atmosphere is omitted and the sensor is sandwiched between and in contact with the outer surface of the first container and the inner surface of the second container. One or more barriers can be completely enclosing the second container, and at least one cavity can exist between the first container and an outermost barrier.

Classifications:

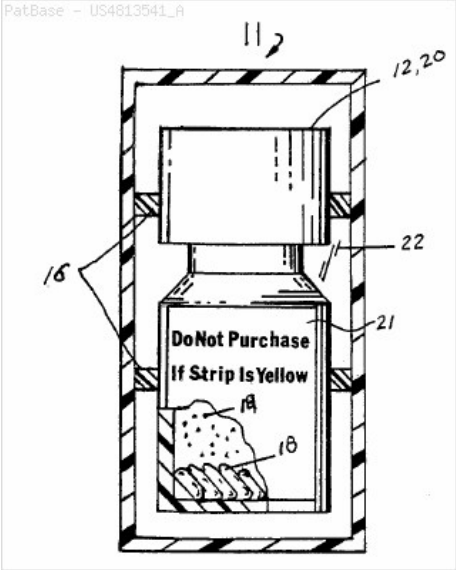
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B65D55/02 B65D77/04 (Core/Invention)

International (IPC 1-7): B65D73/00

CPC: Y10S206/807 B65D77/0493 B65D55/026 B65D2101/00

European: B65D55/02G B65D77/04F1A L65D101/00

US: 206/459 206/459.1 206/807 215/365 215/366 220/214



Family:

Publication number	Publication date	Application number	Application date
US4813541 A	19890321	US19860888385	19860723

Priority:

US19860888385 19860723

Probable Assignee: VELASCO EDWARD R

Assignee(s): (std): VELASCO EDWARD R ; VELASCO JO ANN

Inventor(s): (std): VELASCO EDWARD R ; VELASCO JO ANN

Title: **TAMPER**-EVIDENT CONTAINER ASSEMBLY

Abstract: Source: US4844250A A **tamper**-evident container assembly comprises a container and a **cap**. The container has a dispensing end that includes an opening through which the contents of the container can be dispensed, a **threaded** surface, and a frangible tab extending outwardly from the **threaded** surface. The **cap** is internally **threaded** with the **threads** of the **cap** being complementary to those of the **threaded** surface of the dispensing end of the container and being formed prior to the **cap** being placed on the dispensing end of the container. The **cap** has a vertical notch therein extending from the lower edge thereof of a size sufficient to receive at least a portion of the tab so that the tab is readily visible therethrough. The **cap** is initially placed axially over the dispensing end of the container so that the tab is received within the notch in the **cap**. The **cap** can not be initially removed from the container without separating at least a portion of the tab from the **threaded** surface of the dispensing end of the container. The tab is separated from the **threaded** surface of the container by twisting the **cap** with respect to the container, so that the absence of the tab from the **threaded** surface of the dispensing end of the container **indicates** that the container has previously been opened.

Classifications:

International (IPC 8-9): B65D55/02 (Advanced/Invention);

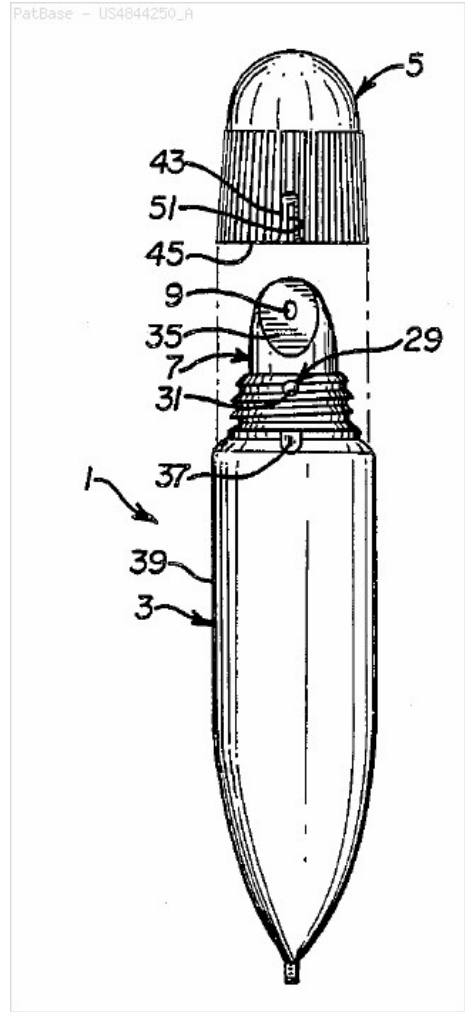
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D35/44

CPC: Y10S411/908 B65D55/02

European: B65D55/02

US: 215/318 222/107 222/153 222/153.06 285/333 401/261 401/262 401/266 411/510 411/908 D9/435 D9/453



Family:

Publication number	Publication date	Application number	Application date
US4844250 A	19890704	US19880287575	19881215

Priority:

US19870121284 19871116 US19880287575 19881215

Probable Assignee: SILGAN TUBES CORP

Assignee(s): (std): WHEELING STAMPING CO

Assignee(s): WHEELING STAMPING COMPANY ; COURTAULDS PACKAGING INC ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICA ; SILGAN TUBES CORP

Inventor(s): (std): HOLOUBEK GEORGE H ; RHOADES JOHN J

Title: **TAMPER** EVIDENT **INDICATING** MEANS

Abstract: Source: US4877143A A **tamper** evident **indicating** means for a vacuum packed package or bottle comprising an indicia printed seal that is separated from a translucent **closure** member when the package or bottle is under vacuum so that the indicia is not readable or discernible through the **closure** member, but when the vacuum is lost, as through **tampering**, the seal contacts the **closure** and the indicia printed thereon is readable or discernible to warn of possible **tampering**.

Classifications:

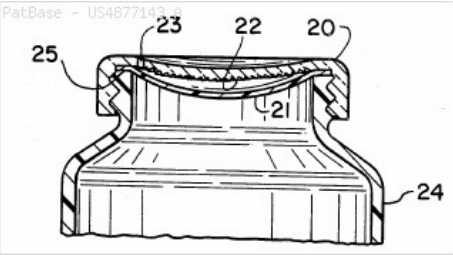
International (IPC 8-9): B65D55/06 B65D79/00 (Advanced/Invention);
B65D55/02 B65D79/00 (Core/Invention)

International (IPC 1-7): B65D55/02

CPC: Y10S206/807 B65D79/005 B65D55/066

European: B65D55/06D B65D79/00B

US: 116/270 206/459 206/459.1 206/807 215/230 229/102



Family:

Publication number	Publication date	Application number	Application date
US4877143 A	19891031	US19880207458	19880616

Priority:

US19880207458 19880616

Probable Assignee: TRAVISANO FRANK P

Assignee(s): (std): TRAVISANO FRANK P

Inventor(s): (std): TRAVISANO FRANK P

Title: **Tamper**-evident container

Abstract: Source: GB2220648A A **tamper**-evident container includes indicia on a **closure** member and container body which are in register in the initial sealed state; at least one of the indicia is substantially invisible to the naked eye but is capable of being viewed by subsequent treatment thereof. In the preferred embodiment two U.V. lines 10 are provided respectively on a **cap** 11 and body 12 of a container and are aligned (Fig. 1) when the container is sealed closed. Since the lines 10 are normally invisible, if the **cap** 11 is unscrewed, the probability is that the lines 10 will no longer then be coincident. When exposed to U.V. radiation the lines 10 will become visible **indicating** that the container may have been **tampered** with. The indicia may alternatively be made by a heat-sensitive **ink** dye.

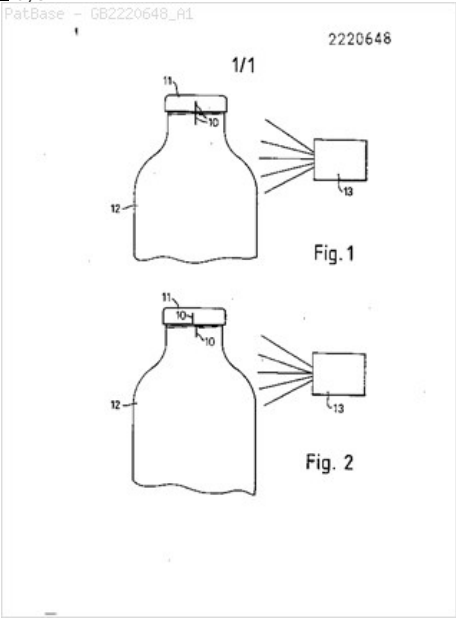
Classifications:

International (IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D101/00 B65D55/02

CPC: B65D55/026

European: B65D55/02G



Family:

Publication number	Publication date	Application number	Application date
GB2220648 A1	19900117	GB19890015964	19890712
GB2220648 B2	19920603	GB19890015964	19890712
GB8816719 A0	19880817	GB19880016719	19880714
GB8915964 A0	19890831	GB19890015964	19890712

Priority:

GB19880016719 19880714

Probable Assignee: ROTHWELLS PICKLES LIMITED

Assignee(s): (std): ROTHWELLS PICKLES LIMITED ; ROTHWELLS PICKLES LTD ; STENHOUSE LESLEY

Assignee(s): LESLEY STENHOUSE

Inventor(s): (std): STENHOUSE LESLEY

Inventor(s): LESLEY STENHOUSE

Title: COLOR INDICATING TAMPER-PROOF SEAL

Abstract: Source: US4986429A A tamper-proof seal employed with a container comprising a plurality of frangible cells filled with a harmless colored substance. The cells may either be located between two hermetically sealed plastic sheets or formed on the exterior of the seal and upon puncturing or applying pressure necessary for entry into the container the cells rupture releasing the substance to provide a visual indication that tampering with the container may have occurred.

Classifications:

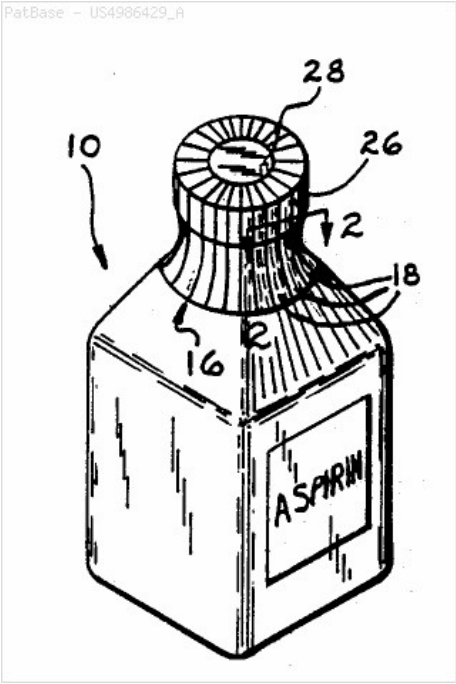
International (IPC 8-9): B65D41/62 B65D55/06 G09F3/03 (Advanced/Invention); B65D41/00 B65D55/02 G09F3/03 (Core/Invention)

International (IPC 1-7): B65D51/18

CPC: Y10S206/807 Y10S428/916 G09F3/0305 B65D41/62 B65D55/066 G09F3/0341 Y10T428/249997

European: B65D41/62 B65D55/06D G09F3/03A G09F3/03A5

US: 206/459 206/459.1 206/807 215/230 428/321.5 428/916



Family:

Publication number	Publication date	Application number	Application date
US4986429 A	19910122	US19890364660	19890612

Priority:

US19890364660 19890612

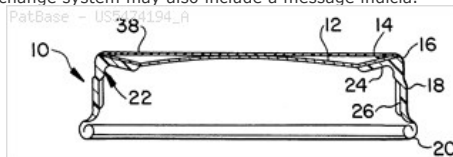
Probable Assignee: SINGLETON JR ROBERT

Assignee(s): (std): SINGLETON JR ROBERT

Inventor(s): (std): SINGLETON JR ROBERT

Abstract: Source: US5474194A This relates to a color change system to be incorporated in a flexing area of an end panel of a **closure**. The color change system includes a dark background coating on a flexing portion of the **closure** end panel to which there is bonded by way of an adhesive such as a varnish, **ink** or coating a brittle layer which due to the flipping action of the flexing portion of the end panel will fracture. The brittle layer is preferably of a light color and is colored utilizing a fluorescent dye. The combination of the background color and the fluorescent color of the brittle layer produces a first color in the original **closure** and when the end panel flexes and the brittle layer fractures to not only crack but also tear apart or delaminate from itself, to reflect its own light color much more brilliantly, the color of the color change system drastically changes to **indicate tampering**. This color change is irreversible. The color change system may also include a message indicia.

US: 215/230 215/250 215/270 215/271 428/209 428/916



Publication number	Publication date	Application number	Application date
AT134963 E	19960315	AT19910915253T	19910703
AU199184172 A1	19920204	AU19910084172	19910703
AU664156 B2	19951109	AU19910084172	19910703
BRPI9106627 A	19930601	BR1991PI06627	19910703
CA2086828 AA	19930106	CA19912086828	19910703
CA2086828 C	20030318	CA19912086828	19910703
DE69117758 D1	19960411	DE19916017758	19910703
DE69117758 T2	19960919	DE19916017758T	19910703
EP0538410 A1	19930428	EP19910915253	19910703
EP0538410 A4	19930811	EP19910915253	19910703
EP0538410 B1	19960306	EP19910915253	19910703
ES2086001 T3	19960616	ES19910915253T	19910703
HU217655 B	20000328	HU19930000028	19910703
HU67066 A2	19950130	HU19930000028	19910703
HU9300028 A0	19930428	HU19930000028	19910703
JP2986113 B2	19991206	JP19910513705T	19910703
JP5508600 T2	19931202	JP19910513705T	19910703
KR100206402 B1	19990701	KR19930070041	19930108
MX9100108 A1	19920228	MX19910000108	19910708
PL297848 A1	19930920	PL19910297848	19910703
US5474194 A	19951212	US19900556530	19900709
WO9200891 A1	19920123	WO1991US04712	19910703
ZA9105330 A	19920429	ZA19910005330	19910709

US19900556530 19900709 WO1991US04712 19910703

Assignee(s): (std): CONTINENTAL WHITE CAP INC

Assignee(s): CONTINENTAL WHITE CAP INC A CORP OF DE ; CONTINENTAL WHITE CAP INC DOWNERS GROVE ILL US ; CONTINENTAL WHITE CAP INC US ; EGGER MARK ; WHITE CAP INC ; SILGAN HOLDINGS INC ; KONCHINENTARU HOWAITO KYATSUPU INC ; ILER DARRELL H ; HEILMAN ROBERT J ; ROZANSKI LEONARD ; AMCOR WHITE CAP INC

Inventor(s): (std): H DARRELL ILER; HEILMAN ROBERT; HEILMAN ROBERT J; ILER DARRELL H; ILER H; ILER H DARRELL; LEONARD ROZANSKI; MARK EGGER; ROBERT J HEILMAN; ROZANSKI LEONARD; EGGER MARK; ILE DARRELL H; ROZANSKI LEONARD

Inventor(s): HEILMAN ROBERT J US ; EGGER MARK US ; EGGER MARK NORTH RIVERSIDE IL 60546 US ; ETSUGAA MAAKU ; ROZANSKI LEONARD CHICAGO IL 60646 US ; ROZANSUKI RENAADO ; ROZANSKI LEONARD US ; ILE DARRELL H US ; ILER H DARRELL WHEATON IL 60187 US ; ILER HDARRELL ; IRAA EICHI DARERU ; HEILMAN ROBERT J ORLAND PARK IL 60462 US ; HEIRUMAN ROBAATO JEI

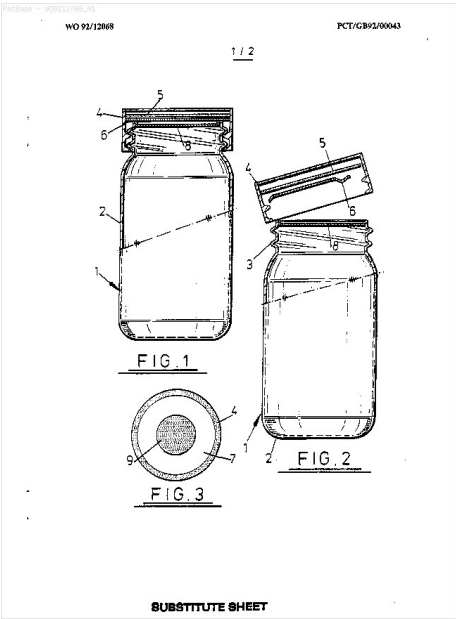
Agent(s): CALLINANS: OSLER HOSKIN AND HARCOURT LLP

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MR MW
NI NO PL RO SD SE SN SJ TD TG

Title: **TAMPER-INDICATING** PACKAGING

Abstract: Packaging associated with an air sensitive **indicator** element (5) which provides an observable change on exposure to air, e.g. as a result of removal of a **lid** (4) from a container (1). The **indicator** element may be Crystal Violet Lactone formulated in a suitable solvent for application to a substrate (e.g. Thin Layer Chromatography paper) which incorporates an acidic material which promotes a colour formation reaction.

Classifications:
International (IPC 8-9): B65D55/06 G01N31/22 (Advanced/Invention);
B65D55/02 G01N31/22 (Core/Invention)
International (IPC 1-7): B65D55/02 G01N31/22 G09F3/02
CPC: B65D55/066 G01N31/22
European: B65D55/06D G01N31/22



Family:

Publication number	Publication date	Application number	Application date
AU199211607 A1	19920817	AU19920011607	19920108
GB2251608 A1	19920715	GB19920000272	19920108
GB9100312 A0	19910220	GB19910000312	19910108
GB9200272 A0	19920226	GB19920000272	19920108
WO9212068 A1	19920723	WO1992GB00043	19920108

Priority:
GB19910000312 19910108 WO1992GB00043 19920108

Probable Assignee: BOWES DARBY DESIGN ASS

Assignee(s): (std): BOWES DARBY DESIGN ASS ; BOWES DARBY DESIGN ASSOCIATES

Assignee(s): BOWES DARBY DESIGN ASSOCIATES LIMITED ; BOWES DARBY DESIGN ASSOCIATES LTD

Inventor(s): (std): CAMPBELL JAMES STANLEY ; GREGORY PETER

Inventor(s): JAMES STANLEY CAMPBELL ; PETER GREGORY

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG US

Title: **Tamper** evident **closure**

Abstract: Source: US5413234A In accordance with the present invention, an irreversible **tamper** evident system for a button **closure** is provided. The irreversible **tamper** evident system is provided by a color change system carried by the flexible button portion of the **closure**. The color change system comprises an **indicator** coating over a dark colored substrate coating. The **indicator** coat is preferably colored with a light colored transparent colorant such as an orange colored fluorescent dye. The **indicator** coat is preferably a liquid material which can be cured by evaporation, heat, UV irradiation or the like, to form a solid layer. When the substrate layer and **indicator** layer are in intimate contact, a first color is observed. Depending upon the relative colors used for this substrate and **indicator** layers, this first color can be a combination of the colors of the two layer or can be primarily the color of the substrate layer. However, when the layers become separated and the outer layer is spaced from the inner layer, a second color is observed which second color is primarily the color of the **indicator** coat.

Classifications:**International (IPC 8-9):** B65B61/26 B65D41/04 B65D55/02

B65D79/00 (Advanced/Invention);

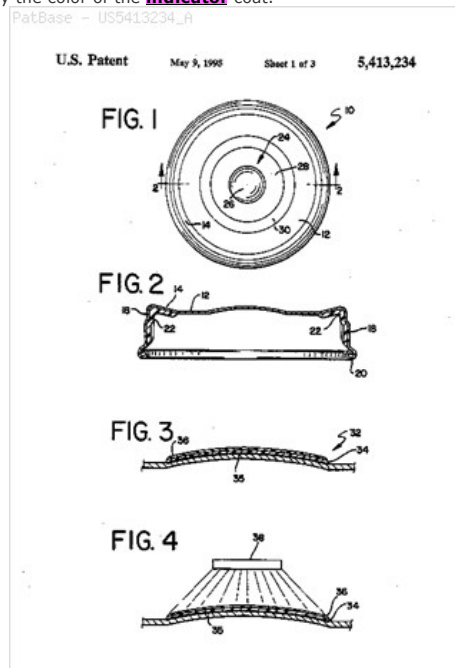
B65D41/04 (Advanced/Non-invention);

B65D41/04 B65D55/02 B65D79/00 (Core/Invention)

International (IPC 1-7): B64D41/00 B65B3/20 B65B5/05 B65B61/26 B65B7/28 B65D

B65D41/02 B65D41/04 B65D41/16 B65D50/00 B65D51/12 B65D51/24 B65D55/02

B65D55/6 B65D79/0 B67B B67B5/00

CPC: B65D55/026 B65D79/005 B65D2101/0084**European:** B65D55/02G B65D79/00B L65D101/00A6**US:** 215/230 215/262 53/411 53/420 53/487 534/110**Family:**

Publication number	Publication date	Application number	Application date
AT179138 E	19990515	AT19930300603T	19930128
AU199331960 A1	19930819	AU19930031960	19930122
AU669683 B2	19960620	AU19930031960	19930122
BRPI9300571 A	19930817	BR1993PI00571	19930212
CA2088456 AA	19940730	CA19932088456	19930129
CA2088456 C	20051115	CA19932088456	19930129
DE69324516 D1	19990527	DE19936024516	19930128
DE69324516 T2	19990923	DE19936024516T	19930128
EP0555972 A1	19930818	EP19930300603	19930128
EP0555972 B1	19990421	EP19930300603	19930128
ES2132179 T3	19990816	ES19930300603T	19930128
HU220885 B1	20020629	HU19930000235	19930129
HU67079 A2	19950130	HU19930000235	19930129
HU9300235 A0	19930428	HU19930000235	19930129
JP3421069 B2	20030630	JP19930023856	19930212
JP6001365 A2	19940111	JP19930023856	19930212
KR100268960 B1	20001101	KR19930001928	19930212
MX9300755 A1	19930901	MX19930000755	19930211
PL172317 B1	19970930	PL19930297689	19930210
PL297689 A1	19931018	PL19930297689	19930210
TH16527 A	19950829	TH19931000158	19930203
US5413234 A	19950509	US19920835137	19920212
US5581978 A	19961210	US19950434943	19950504
ZA9300524 A	19930909	ZA19930000524	19930125

Priority:

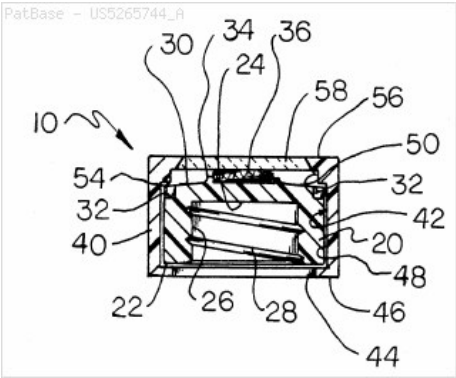
US19920835137 19920212 CA19932088456 19930129 US19950434943 19950504

Probable Assignee: SILGAN HOLDINGS INC**Assignee(s):** (std): CONTINENTAL WHITE CAP INC**Assignee(s):** WHITE CAP INC ; SILGAN HOLDINGS INC ; CONTINENTAL WHITE CAP INC DOWNERS GROVE ILL US ; HEKAL IHAB ; ILER HOWARD DARRELL ; KISS BRADLEY C ; Inc. ; AMCOR WHITE CAP INC ; BIALKA DANIEL P ; Continental White Cap**Inventor(s):** (std): BIALKA DANIEL P ; BURATSUDOREI SHII KISU ; DANIERU PII BAIARUKA ; HAWAADO DAARERU IRAA ; HEKAL IHAB ; HEKAL INHAB ; HEKEL IHAB ; IHABU HEKARU ; ILER HOWARD D ; ILER HOWARD DARREL ; ILER HOWARD DARRELL ; KISS BRADLEY C**Inventor(s):** KISS BRADLEY C LOMBARD ILLINOIS 60148 US ; ILER HOWARD DARRELL WHEATON ILLINOIS 60187 US ; HEKEL IHAB STANFORD CONNECTICUT 06093 US ; HOWARD DARRELL ILER ; Ihab ; IHAB HEKAL ; Hekel ; DANIEL P BIALKA ; BIALKA DANIEL P LOCKPORT ILLINOIS 60441 US ; BRADLEY C KISS**Agent(s):** CALLINANS; OSLER HOSKIN AND HARCOURT LLP**Designated states:** AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Title: TAMPER-PROOF CAP

Abstract: Source: US5265744A A tamper-proof cap for containers, bottles and the like comprising a first driven member and a second drive member concentrically mounted on the first member and having a window through which a visible signal may be observed by a viewer. A rupturable capsule containing signal media is supported on the first driven member and displays a signal of first characteristic through the window. Upon opening the cap by causing the drive member to engage the driven member, the capsule ruptures causing the signal media to display a signal of a second characteristic through the window indicative of the fact that an attempt had been made to open the cap. In an alternative embodiment, a lens mounted on the window portion of the drive member enables viewing of the signal characteristic when the containers bearing the caps of the invention are stored on a relatively high shelf.

Classifications:
International (IPC 8-9): B65D50/04 B65D55/02 (Advanced/Invention); B65D50/00 B65D55/02 (Core/Invention)
International (IPC 1-7): B65D55/02
CPC: Y10S206/807 B65D55/026 B65D50/041
European: B65D50/04B B65D55/02G
US: 116/200 116/279 206/459.1 206/534 206/807 215/203 215/219 215/220 215/230 215/250



Family:

Publication number	Publication date	Application number	Application date
US5265744 A	19931130	US19920957098	19921007

Priority:

US19920957098 19921007

Probable Assignee: DUTY BILLY

Assignee(s): (std): DUTY BILLY ; MCCLANAHAN ELLEN ; NEWBERRY RANDY

Inventor(s): (std): DUTY BILLY ; MCCLANAHAN ELLEN ; NEWBERRY RANDY

Title: **Tamper** evident seal and system

Abstract: Source: US5292018A A **tamper** evident seal and system for use on a variety of container and **closure** combinations providing a seal across the juncture of the container and **closure** and positive **indication** to consumers of **tampering** with the seal. The seal comprises a heat shrink band to which is applied at least one strip of a heat activated adhesive extending perpendicularly to the band's circumference and along the full length of the band. Perforations are provided along either edge to permit separation of the majority of the band from that portion to which the adhesive is applied. Indicia are provided on the band and on the container to **indicate** the presence or absence of the band. Application of the band to the container by heating causes the band to shrink into tight conformance with the container and **closure** obscuring the indicia thereon and bringing the adhesive into engagement with the container and **closure**. The heat activates the adhesive causing it to adhere that portion of the band to the container and **closure** across their juncture. Removal of the band will leave the adhered strip in place as a secondary safety seal and will expose indicia on the container to alert the consumer that the outer band has been removed and that the secondary safety seal should still be intact but must be broken to open the container.

Classifications:

International (IPC 8-9): B65D55/06 B65D55/08 (Advanced/Invention);

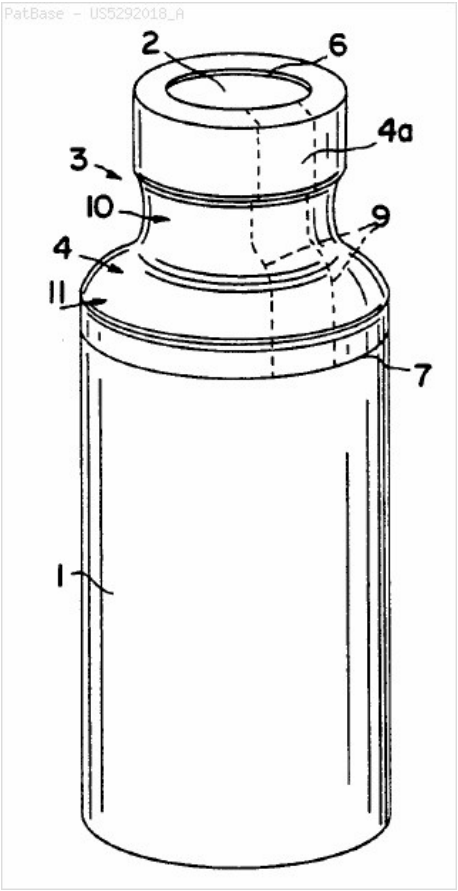
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D41/02

CPC: B65D55/06 B65D55/0854

European: B65D55/06 B65D55/08B3

US: 215/246 215/254



Family:

Publication number	Publication date	Application number	Application date
US5292018 A	19940308	US19920909762	19920707

Priority:

US19920909762 19920707

Probable Assignee: TRAVISANO FRANK P

Assignee(s): (std): TRAVISANO FRANK P

Inventor(s): (std): TRAVISANO FRANK P

Title: BOTTLE WITH **TAMPER** EVIDENT WRAPPING

Abstract: Source: US5495944A Disclosed herein is a sealed **tamper**-evident container. The container comprises: a bottle having a side wall portion and an open mouth portion; a **cap** connected to the bottle mouth portion; a frangible label connected to the bottle side wall portion; a wrapper having an upper portion that overlies the **cap** and a lower portion that overlies the bottle and at least a portion of the label so that the **cap** is sealably fixed to the bottle; and means for securing the wrapper lower portion with the frangible label. The wrapper upper portion is removable from the container and the **cap** so that the **cap** can be separated from the container. Removal of the wrapper lower portion ruptures the frangible label; the label rupture serves as a visible indicia of the removal of the wrapper bottom portion from the bottle, and thus alerts the consumer to possible **tampering**.

Classifications:

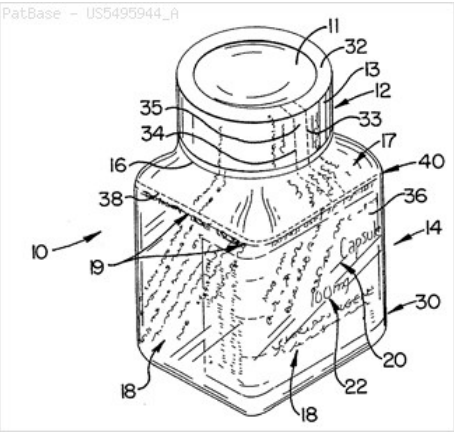
International (IPC 8-9): B65D23/08 B65D55/02 G09F3/02 (Advanced/Invention); B65D23/00 B65D55/02 G09F3/02 (Core/Invention)

International (IPC 1-7): B65B5/43 B65D23/08 B65D55/02 G09F3/02

CPC: B65D23/0842 B65D55/026 G09F3/0292 Y10S206/807

European: B65D23/08D B65D55/02G G09F3/02D2

US: 206/459.1 206/497 206/807 215/251 215/254



Family:

Publication number	Publication date	Application number	Application date
AU199479439 A1	19950508	AU19940079439	19941020
GB9321755 A0	19931215	GB19930021755	19931021
US5495944 A	19960305	US19940323400	19941014
WO9511168 A1	19950427	WO1994GB02294	19941020

Priority:

GB19930021755 19931021 WO1994GB02294 19941020

Probable Assignee: BURROUGHS WELLCOME CO

Assignee(s): (std): BURROUGHS WELLCOME CO ; WELLCOME FOUND

Assignee(s): WELLCOME FOUNDATION LTD ; WELLCOME FOUNDATION THE LIMITED ; THE WELLCOME FOUNDATION LIMITED

Inventor(s): (std): LERMER STEPHEN C ; LERMER STEPHEN CARL

Inventor(s): STEPHEN CARL LERMER

Designated states: AT AU BE BR CA CH CN DE DK ES FR GB GR HU IE IT JP KR LT LU MC NL NZ PT SE SI

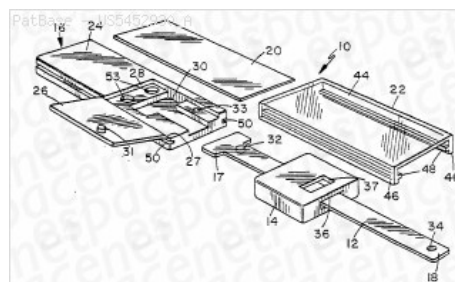
Abstract: Source: US5452930A A **tamper indicating** device for use on any container or enclosure has a security strap or other elongate connecting member for securing to between one part of a container or other item and a movable **closure** for the item, and a base unit for releasably trapping at least one end of the strap so that the container or item cannot be opened without first releasing the strap. The base unit has a recess for releasably retaining the strap end, and an access opening to the recess across which a **tamper indicating** label can be applied to the base unit. The only access to the recess to release the strap end is via the access opening, and once the label is applied the strap end can only be released by first tearing off or removing the label.

International (IPC 8-9): B65D55/02 G09F3/03 (Advanced/Invention);
B65D55/02 G09F3/03 (Core/Invention)

CPC: Y10T292/507 Y10T292/509 Y10T

European: B65D55/02 G09F3/03A8
US: 282/08 202/207 00A 202/207A 2

US: 283/98 292/307.00A 292/307A 2

[illegible]

Publication number	Publication date	Application number	Application date
US5452930 A	19950926	US19930133556	19931007
US5568951 A	19961029	US19950401030	19950308

US19930133556 19931007 US19950401030 19950308

Probable Assignee: SIGNAT LLC

Assignee(s): MORGAN BRIAN R ; SIGNAT LLC

Inventor(s): (std): MORGAN BRIAN R

Title: **Tamper** evident **closure** with movable button and colour change system

Abstract: Source: GB2296912 A A **closure** comprises a panel 11 movable in response to a pressure change and colour-change **tamper-indicating** means having a first coloured layer 32 and a second differently coloured layer 38 adhered to the first layer, the second layer being coloured over only the part of its thickness which is adjacent the first layer and being detachable from the first layer in response to a movement of the panel; a third colour is visible when the layers are adhered but only the second colour shows up when they are detached. Preferably the colour change, on detachment, is irreversible. The first colour may be blue, the second red and the third black. The second layer may be absorbent and coloured by absorbing a dye coating 40 into it, the concentration of the colour in the layer diminishing away from the point of absorption, or the second layer may comprise a pre-coloured laminate with a transparent covering (38B and 38A, Fig 5). The second layer may be UV cured and be brittle. Preferably there is a transparent cover 48 over the second layer. Preferably there is a lacquer 34 between the two coloured layers.

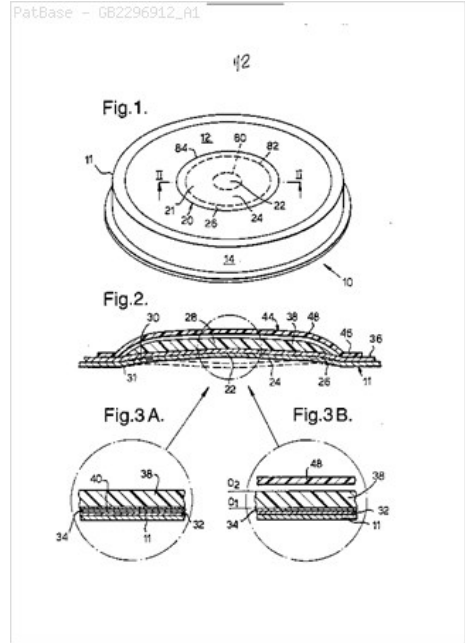
Classifications:

International (IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D55/06 B65D79/00

CPC: B65D55/026

European: B65D55/02G



Family:

Publication number	Publication date	Application number	Application date
GB2296912 A1	19960717	GB19950000682	19950113
GB9500682 A0	19950308	GB19950000682	19950113

Priority:

GB19950000682 19950113

Probable Assignee: METAL BOX PLC

Assignee(s): (std): METAL BOX PLC

Assignee(s): CARNAUDMETALBOX PLC

Inventor(s): (std): BEAUMONT RICHARD MARK ; COLLINS MALCOLM GEORGE

Inventor(s): MALCOLM GEORGE COLLINS ; RICHARD MARK BEAUMONT

Title: **TAMPER** EVIDENT SEAL AND SYSTEM

Abstract: Source: US5544770A A **tamper** evident seal and system for use on a variety of container and **closure** combinations providing a seal across the juncture of the container and **closure** or across the container opening and positive **indication** to consumers of **tampering** with the seal. The seal system comprises the combination of indicia specifically placed on the container and a seal means in the form of a heat shrink band or a foil sheet applied to the container in a manner so as to temporarily obscure the indicia. In a first embodiment the indicia is applied to the container in an area below the neck and the seal means comprises an opaque band adhered to the container and **closure** over the juncture of thereof and over the indicia. In a second embodiment, the indicia is applied to the lip around the container mouth and the seal means comprises a foil sheet adhered to the lip and covering the mouth. A third embodiment combines the two individual forms into a double seal system comprising the inner foil sheet and indicia and the outer opaque band and indicia.

Classifications:

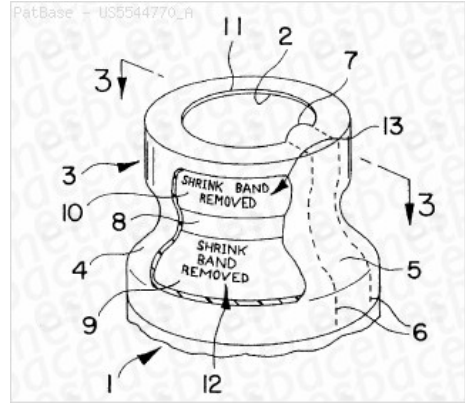
International (IPC 8-9): B65D55/02 B65D55/08 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D39/00

CPC: Y10S206/807 B65D55/0854 B65D55/026

European: B65D55/02G B65D55/08B3

US: 206/807 215/230 215/232 215/246 215/250 215/253 215/254 215/347 215/349



Family:

Publication number	Publication date	Application number	Application date
US5544770 A	19960813	US19930057809	19930507

Priority:

US19930057809 19930507

Probable Assignee: TRAVISANO FRANK P

Assignee(s): (std): TRAVISANO FRANK P

Inventor(s): (std): TRAVISANO FRANK P

Title: **TAMPER INDICATING** SECURITY ITEM AND JOINING METHOD

Abstract: Source: US5851615A PCT No. PCT/GB96/00436 Sec. 371 Date Aug. 7, 1997 Sec. 102(e) Date Aug. 7, 1997 PCT Filed Feb. 27, 1996 PCT Pub. No. WO96/27178 PCT Pub. Date Sep. 6, 1996A **tamper indicating** security item such as a shrink wrap seal comprises a substrate including an optically variable effect generating structure such as an embossed hologram. Each surface of the substrate carries an adhesive having a strength such that after the substrate has been adhered to a surface it cannot be removed without damaging the optically variable effect generating structure.

Classifications:

International (IPC 8-9): B32B7/06 B65D55/02 C09J7/02 G08B13/18 G09F3/00 G09F3/02 G09F3/03 G09F3/10 (Advanced/Invention);

B32B7/06 G09F3/00 G09F3/10 (Advanced/Non-invention);

B32B7/06 B65D55/02 C09J7/02 G09F3/00 G09F3/02 G09F3/10 (Core/Invention)

International (IPC 1-7): B32B3/00 B32B7/06 B65D55/06 C09J7/02 G08B13/18 G09F3/00 G09F3/02 G09F3/03 G09F3/10

CPC: C09J7/0264 C09J2201/134 C09J2201/162 C09J2203/338 Y10S428/915 G03H1/0252 B65D55/026 C09J7/0296 C09J2400/226 G03H1/0011 G03H1/028 G03H2240/50 G03H2250/12 G09F3/0292 Y10T428/14 Y10T428/24802 Y10T428/24851 Y10T428/24917 Y10T428/31551

European: B65D55/02G C09J7/02K9B C09J7/02K9F G03H1/00A1 G03H1/02L G09F3/02D2 M09J201/134 M09J201/162 M09J203/338 M09J400/22S S03H1/00A1 S03H1/02X2 S03H240/50 S03H250/12

US: 428/195 428/195.1 428/201 428/209 428/40.1 428/423.1 428/915

PatBase - US5851615_A

U.S. Patent

Dec. 22, 1998

5,851,615

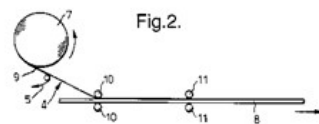
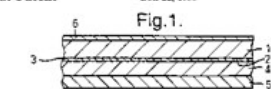


Fig. 3.

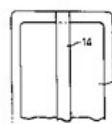
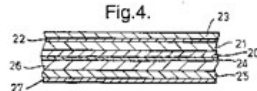


Fig. 4.



Family:

Publication number	Publication date	Application number	Application date
AU199648371 A1	19960918	AU19960048371	19960227
BRPI9607469 A	19971223	BR1996PI07469	19960227
CA2213653 AA	19970829	CA19962213653	19960227
CZ286010 B6	19991215	CZ19970002433	19960227
CZ9702433 A3	19980513	CZ19970002433	19960227
DE69600877 D1	19981203	DE19966000877	19960227
DE69600877 T2	19990325	DE19966000877T	19960227
DK0812450 T3	19990712	DK19960904177T	19960227
EP0812450 A1	19971217	EP19960904177	19960227
EP0812450 B1	19981028	EP19960904177	19960227
ES2125098 T3	19990216	ES19960904177T	19960227
GB2298391 A1	19960904	GB19960003493	19960220
GB2298391 B2	19980311	GB19960003493	19960220
GB9504145 A0	19950419	GB19950004145	19950302
GB9603493 A0	19960417	GB19960003493	19960220
HU219844 B	20010828	HU19980001248	19960227
HU9801248 AB	19980928	HU19980001248	19960227
HU9801248 AC	19981130	HU19980001248	19960227
RO119394 B1	20040830	RO19970001667	19960227
RU2142165 C1	19991127	RU19970113475	19960227
RU97113475 A	19991120	RU19970113475	19970812
TR9700882 T1	19980221	TR19970000882T	19960227
US5851615 A	19981222	US19970860663	19970807
WO9627178 A1	19960906	WO1996GB00436	19960227

Priority:

GB19950004145 19950302 GB19960003493 19960220 WO1996GB00436 19960227

Probable Assignee: DE LA RUE INT LTD

Assignee(s): (std): DE LA RUE THOMAS AND CO LTD ; RUE DE INT LTD ; RUE INT DE LTD ; KAY RALPH ; LJA RJU INTERNEHSHNL D LTD ; DE LA RUE HOLOGRAPHICS LTD ; LJA RJU INTERNEHSHNL LIMITED D

Assignee(s): LA RUE HOLOGRAPHICS DE LTD ; DE LA RUE INT ; DE LA RUE INT LONDON LTD ; THOMAS DE LA RUE LTD ; THOMAS DE LA RUE LIMITED ; LA RUE HOLOGRAPHICS DE LIMITED ; DE LA RUE INT LTD ; DE LJA RJU INTERNEHSHNL LIMITED ; DE LA RUE INTERNATIONAL LIMITED LONDON ; DE LA RUE INTERNATIONAL LTD ; DE LA RUE INTERNATIONAL LIMITED ; DE LA RUE INTERNATIONAL LTD LONDON GB ; DE LJA RJU INTERNEHSHNL LTD ; DE LA RUE HOLOGRAPHICS LIMITED

Inventor(s): (std): KEY RALPH ; RAL F KEHJ ; KAY RALPH

Inventor(s): KAY RALPH BASINGSTOKE RG24 8RQ GB ; RAL'F KEHJ ; RALPH KAY ; RALPH KEY

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

Title: SEALED LABEL HAVING ANTI-COUNTERFEIT CONSTRUCTION

Abstract: Source: US5605230A A container, such as the type having a base portion, and an upper neck portion, a shoulder portion between the neck and base portion and a removable closure applied to the neck portion in a sealed relation therewith, is provided with an anti-counterfeit multi-layer label construction. The multi-layer construction includes a label which is adhesively applied to the back side of a container. A printed indicia is provided on the front side of the label so as to be readable by the customer upon removal of an overlying sleeve which is placed over the label. The sleeve is in the form of a protective film which is heat shrunk into a conforming, sealed relationship around the container and which covers at least a portion of the label. A release coat is provided over the underlying printing. A background coat is provided over the release coat so as to cover the underlying printing. Top indicia is provided on the background coat with a varnish thereon. An adhesive is applied on the inside of the sleeve and is brought into contact and sealed with the coatings on the label upon shrinking the sleeve onto the container. Upon removal of the sleeve, the top indicia and the background coatings are removed. The release coat serves as a removable base for the overlying printing. Upon removal of the sleeve, only the underlying printing on the label is exposed.

Classifications:

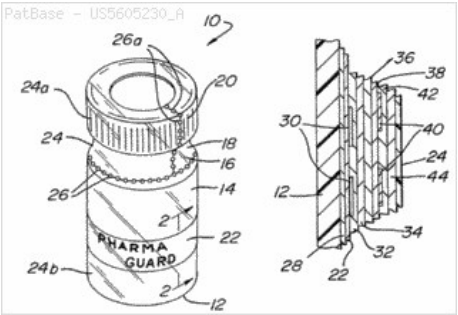
International (IPC 8-9): B65D5/43 B65D55/02 B65D55/08 (Advanced/Invention); B65D5/42 B65D55/02 (Core/Invention)

International (IPC 1-7): B65D5/43

CPC: B65D55/026 B65D55/0854 Y10S206/807 Y10S215/901

European: B65D55/02G B65D55/08B3

US: 206/497 206/534 206/807 215/901 40/310 40/5



Family:

Publication number	Publication date	Application number	Application date
US5605230 A	19970225	US19940320720	19941011

Priority:

US19940320720 19941011

Probable Assignee: ELR INC A CORP OF DELAWARE

Assignee(s): (std): ELR INC

Assignee(s): ELR INC A CORP OF DELAWARE ; ELR INC A DELAWARE CORP

Inventor(s): (std): GORDON JR JOHN L ; MARINO JR MICHAEL A ; ST HILAIRE RICHARD J

Title: A pressure sensitive recording device

Abstract: Source: GB2345067A A pressure sensitive recording device (10) comprises a layer (12) of micro-encapsulated material (13) and a layer (14) of a re-active substance, the two layers being located between two covers (11) and (15) and the arrangement being such that, when the layers (12, 14) are in contact one with another and the device is subjected to a non-planar pressure inducing stimulus, the micro-encapsulated material is released and reacts with the substance so that the substance is activated irreversibly thereby recording that the device has been subjected to the stimulus. Cover (15) may be transparent. The re-active substance in layer (14) is a moisture and oil sensitive substance and the re-active substance may also be present in microcapsule form. The pressure sensitive recording device may be incorporated in a closure or a container such as to indicate tamper evidence (Fig. 4 not shown) or in an improved lottery card.

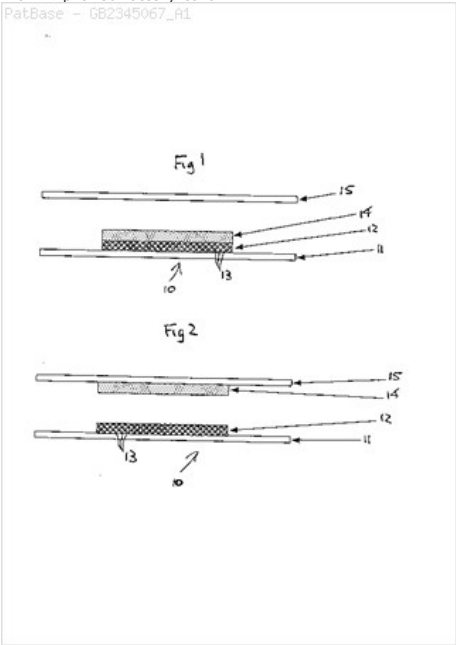
Classifications:

International (IPC 8-9): B41M3/14 B41M5/165 (Advanced/Invention);
B41M3/14 B41M5/165 (Core/Invention)

International (IPC 1-7): B41M5/165 B65D55/02

CPC: B41M3/142 B41M5/165 B65D2101/00

European: B41M3/14C B41M5/165 L65D101/00



Family:

Publication number	Publication date	Application number	Application date
GB200006802 A0	20000510	GB20000006802	20000322
GB2345067 A1	20000628	GB20000006802	20000322
GB9916069 A0	19990908	GB19990016069	19990708

Priority:

GB19990016069 19990708

Probable Assignee: AMG INNOVATIONS LTD

Assignee(s): (std): AMG INNOVATIONS LTD

Assignee(s): AMG INNOVATIONS LIMITED

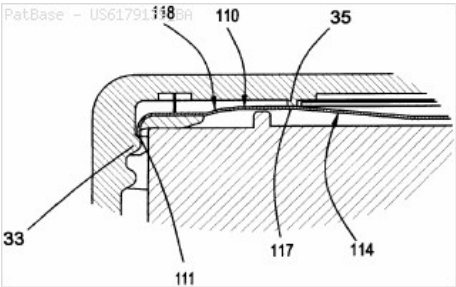
Inventor(s): (std): GILPIN ALEXA MARY ; FROST PAUL GEOFFREY

Inventor(s): ALEXA MARY GILPIN ; PAUL GEOFFREY FROST

Title: **TAMPER-INDICATING CLOSURE**

Abstract: Source: US6179139B This relates to the provision of a button type **closure** with a **tamper-indicating** element that visually **indicates** when a container has been opened. A deflectable button on an actuator panel is utilized to fracture a disk of brittle material situated between the button and a rigid transparent plastic holder into which the actuator panel and brittle disk are inserted. The plastic holder not only carries the actuator panel and brittle disk, but it also has provisions to hold the deflectable button in its down position by pressing the down button tightly against a rib on the underside of the holder, thus holding the deflectable button in the down position before the **closure** is applied to a container. When the **closure** is applied to a container the container finish deforms a region on the actuator panel adjacent to the button, decreasing the overall height of the actuator panel, so that after application of the **closure** to a container, only the container finish is pressing the down button tightly against the rib on the underside of the holder, thus continuing to prevent the button from popping up. Upon opening the package, the separation of the actuator panel and container finish permits the deformed actuator panel and the transparent holder to separate also, releasing the down button, allowing it to flip back to its up position, striking the brittle disk and fracturing it, thus producing an irreversible **indication** that the package has been opened.

Classifications:
International (IPC 8-9): B65D55/02 B65D55/06 (Advanced/Invention); B65D55/02 (Core/Invention)
International (IPC 1-7): B65D41/16 B65D50/00 B65D51/14
CPC: Y10S215/901 B65D55/066 B65D55/026
European: B65D55/02G B65D55/06D
US: 215/230 215/317 215/901



Family:

Publication number	Publication date	Application number	Application date
US6179139 BA	20010130	US19990274930	19990324

Priority:
US19990274930 19990324

Probable Assignee: ANGELA THERESE HEILMAN LIVING TRUST
Assignee(s): ANGELA THERESE HEILMAN LIVING TRUST ; HEILMAN ANGELA THERESE ; HEILMAN ROBERT JOHN
Inventor(s): (std): HEILMAN ROBERT JOHN

Title: METHOD FOR INHIBITING THE LEAKAGE OF CONTAINERS DURING SHIPPING AND CONTAINERS FORMED THEREFROM

Abstract: Source: US2003230577A A method for inhibiting the leakage of a container during handling or shipping is provided. The container can have a body that defines a base portion and a top portion to which a lid is removably secured. A sealing label is adhesively attached to the lid and container body to inhibit the loosening of the lid. For example, in one embodiment, the sealing label includes a polyolefin film facestock and a rubber-based adhesive that is solvent-resistant.

Classifications:

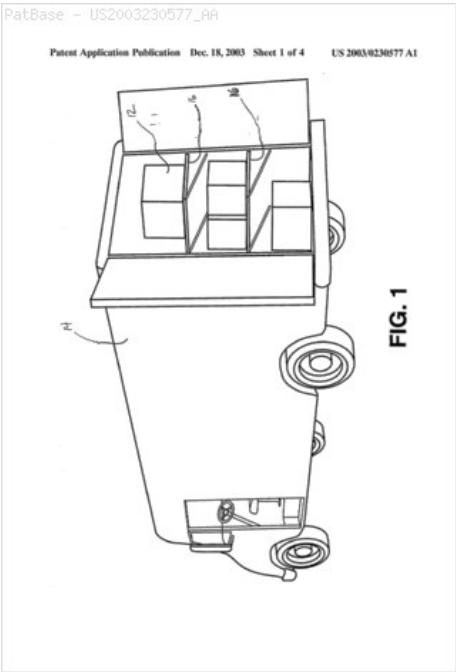
International (IPC 8-9): B65D55/06 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D45/00 G09F3/00

CPC: B65D55/06

European: B65D55/06

US: 206/459.5 220/315 40/31 40/310 40/311



Family:

Publication number	Publication date	Application number	Application date
US2003230577 AA	20031218	US20020174519	20020618

Priority:

US20020174519 20020618

Probable Assignee: PRINTSOURCE INC

Assignee(s): (std): PRINTSOURCE INC

Inventor(s): (std): SMITH C KELLY

Title: **Tamper** evident **closure** with image

Abstract: Source: GB2397294A A **tamper** evident **closure** comprising a pair of members which are movable relative to each other and carry respective sections of an image such that in a first relative position only a first set of the sections is visible and in the second relative position all sections are visible. The image may be printed using any known standard techniques such as Optically Variable Device, Holograms, or maybe printed using standard coloured **inks** and so forth. In another embodiment a filter or lens to decode an image may be used (fig 2.) In a further embodiment the image may be provided through the side of the **closure** device (fig 5).

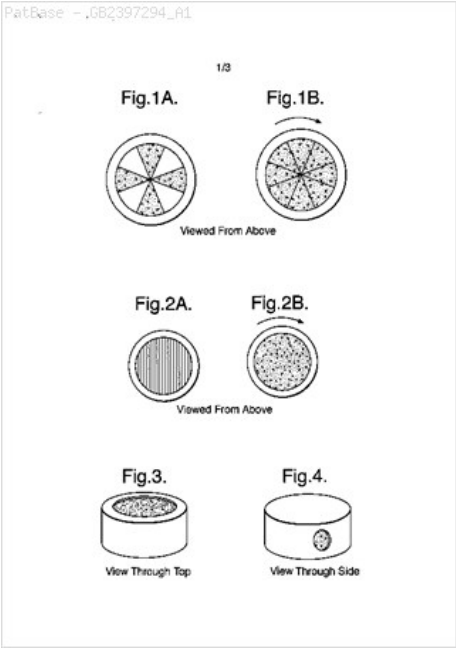
Classifications:

International (IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D55/02 B65D55/06

CPC: B65D55/026

European: B65D55/02G



Family:

Publication number	Publication date	Application number	Application date
GB200226142 A0	20021218	GB20020026142	20021108
GB2397294 A1	20040721	GB20020026142	20021108

Priority:

GB20020026142 20021108

Probable Assignee: RUE DE INT LTD

Assignee(s): (std): RUE DE INT LTD

Assignee(s): DE LA RUE INTERNATIONAL LIMITED ; LA RUE INTERNATIONAL DE LIMITED

Inventor(s): (std): CALVERLEY SIMON GEORGE ; CHRISTOPHERSEN BRYAN JAMES ; ISHERWOOD ROLAND ; OVENSTONE JAMES

Inventor(s): ROLAND ISHERWOOD ; SIMON GEORGE CALVERLEY ; BRYAN JAMES CHRISTOPHERSEN ; JAMES OVENSTONE

Title: AUTHENTICATION SYSTEM

Abstract: Source: US2006255130A An authentication system for authenticating products at point-of-release, the system including housing the products in respective containers having respective unique product identifiers, e.g., numbers or codes, storing in an authentication database data relating to the product identifiers, reading at a trusted location terminal the data from one of the product identifiers, communicating at least some of the data read from the product identifier to the authentication database and comparing data of the product identifier with data of the authentication database so as to authenticate the corresponding product.

Classifications:

International (IPC 8-9): A61J3/00 B65D25/20 B65D55/06 G06F17/60 G06F7/08 G06K15/00 G06K17/00 G06K19/10 G06Q10/00 G06Q50/00 G07D7/00 G07F7/12 G07G1/00 (Advanced/Invention);

G06K17/00 (Advanced/Non-invention);

A61J3/00 B65D25/20 B65D55/02 G06F7/06 G06K15/00 G06K17/00 G06K19/10 G06Q10/00 G06Q50/00 G07D7/00 G07F7/12 G07G1/00 (Core/Invention);

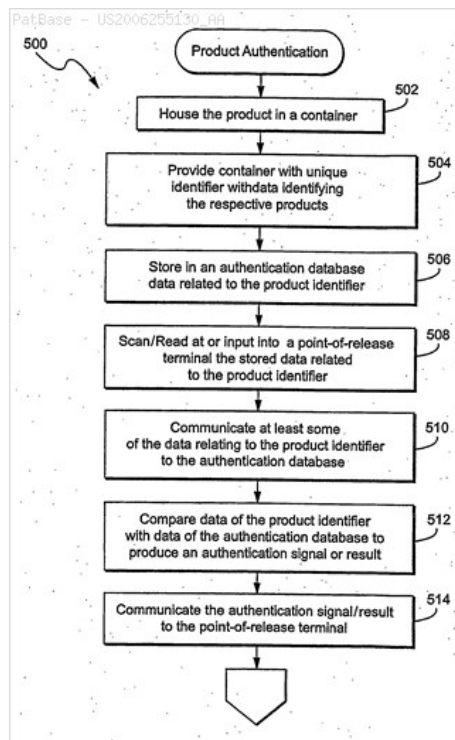
G06K17/00 (Core/Non-invention)

International (IPC 1-7): G01V15/00 G06F17/16 G06F17/60 G07G1/00 G07G1/14 G09F3/02

CPC: G06K2017/0064 G07D7/0026 G07D7/004 G07F7/08 G07F7/12 G07F7/122 G07F7/0092 G07G1/0054

European: G07D7/00B6 G07D7/00D G07D7/00D2 G07F17/00P G07F7/08 G07F7/12 G07F7/12A G07G1/00C2D S06K17/00W18

US: 235/380 235/381 235/381S 235/383 235/383P 235/385



Family:

Publication number	Publication date	Application number	Application date
EA009174 B1	20071228	EA20050001767	20040510
EP1620836 A1	20060201	EP20040731954	20040510
GB200310605 A0	20030611	GB20030010605	20030508
IN02910CN2005 A	20070914	IN2005CN02910	20051108
IN223488 B	20081121	IN2005CN02910	20051108
JP2006525574 T2	20061109	JP20060506240T	20040510
US2006255130 AA	20061116	US20040555965	20040510
US7757948 BB	20100720	US20040555965	20040510
WO04100029 A1	20041118	WO2004GB02018	20040510

Priority:

GB20030010605 20030508 WO2004GB02018 20040510

Probable Assignee: AEGATE SALUS AG

Assignee(s): (std): AEGATE LTD ; COX PAUL N ; COX PAUL NICHOLAS ; PA KNOWLEDGE LTD ; WHEWELL ROBERT ; GILL ANDREW JONATHAN ; GILL ANDREW J

Assignee(s): PA KNOWLEDGE LIMITED ; AEGATE SALUS AG ; AEGATE GENEVA GMBH ; AEGATE LIMITED

Inventor(s): (std): COX PAUL N ; COX PAUL NICHOLAS ; GILL ANDREW J ; GILL ANDREW JONATHAN ; WHEWELL ROBERT

Inventor(s): GILL ANDREW J ; COX PAUL

Agent(s): NIXON AND VANDERHYE PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: NECK BAND USING STRAIGHT-TEAR FILM

Abstract: Source: US2005103789A An improved neck band is provided for a container having a neck and removable closure at the end. The neck band is prepared from a straight-tear film, preferably a polypropylene film that has been oriented in a single direction. The neck band is provided with a tab and is attached to the neck and removable closure so that when the tab is pulled, the polymer material separates along a line around the circumference of the neck adjacent the skirt of the removable closure.

Classifications:

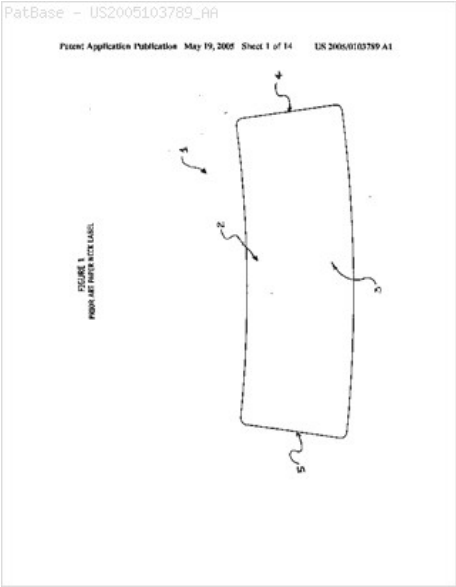
International (IPC 8-9): B65D41/32 B65D51/20 B65D55/08 G09F23/06 G09F3/00 G09F3/02 G09F3/04 (Advanced/Invention); B65D41/32 B65D55/02 G09F23/00 G09F3/00 G09F3/02 G09F3/04 (Core/Invention); B65D (Subclass/Invention)

International (IPC 1-7): B65D0/00 B65D41/32 B65D51/20

CPC: B65D55/0818 G09F3/02 G09F3/04 G09F23/06

European: B65D55/08B G09F23/06 G09F3/02 G09F3/04

US: 220/266 40/311



Family:

Publication number	Publication date	Application number	Application date
CA2524696 AA	20051104	CA20042524696	20040506
MXPA05011848 A1	20060525	MX2005PA11848	20040506
US2005103789 AA	20050519	US20040841714	20040506
US2006225320 AA	20061012	US20060371976	20060308
WO04099008 A2	20041118	WO2004US14314	20040506
WO04099008 A3	20050915	WO2004US14314	20040506

Priority:

US20030468435P 20030506 US20040841714 20040506 WO2004US14314 20040506
US20060371976 20060308

Probable Assignee: RENAISSANCE MARK INC

Assignee(s): (std): DREGALLA MICHAEL E ; O HARA WAYNE ; RENAISSANCE MARK INC

Assignee(s): O HARA WAYNE J ; FD ALPHA ACQUISITION LLC ; JEFFERIES FINANCE LLC

Inventor(s): (std): DREGALLA MICHAEL E ; O HARA WAYNE ; O HARA WAYNE J

Inventor(s): DREGALLA MICHAEL ; WAYNE O HARA ; O HARA WAYNE JOHN

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP; MERCHANT AND GOULD PC; COCHRAN FREUND AND YOUNG LLC

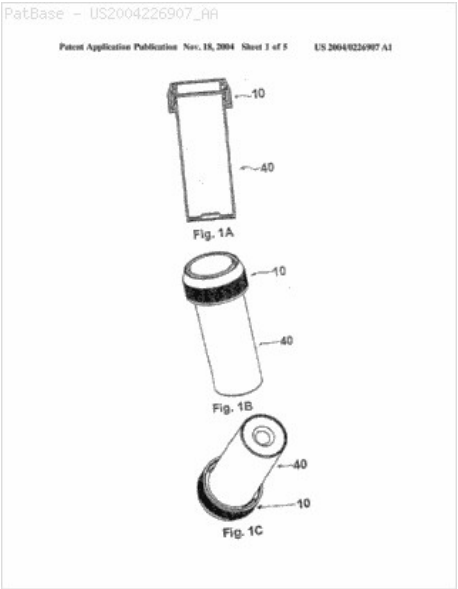
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: TWO PIECE REVERSIBLE CHILD RESISTANT CLOSURE

Abstract: Source: US2004226907A A reversible child-resistant closure system including a closure and container. The closure has a child resistant mode when applied to the container in a first child-resistant position and has a non-child resistant mode when applied to the container in a second non-child resistant position. The closure includes an outer cap and an inner cap. The inner cap is coaxially positioned and nested within the outer cap such that a plurality of angular abutment surfaces of the inner cap engage a series of angular abutments of the outer cap upon rotation of the outer cap to rotate the inner cap in a closing direction. However, upon rotation of the outer cap member in an opening direction in the absence of an axial force, the angular abutment surfaces of the inner cap cam over and past the series of angular abutments of the outer cap, preventing rotation of the inner cap.

Classifications:

International (IPC 8-9): B65D41/04 B65D50/04 (Advanced/Invention);
B65D41/04 B65D50/00 (Core/Invention)
International (IPC 1-7): B65D50/00
CPC: B65D41/0471 B65D50/041
European: B65D41/04E B65D50/04B
US: 215/204 215/217 215/220 215/228 215/330



Family:

Publication number	Publication date	Application number	Application date
US2004226907 AA	20041118	US20030356493	20030203
US7000789 BB	20060221	US20030356493	20030203

Priority:

US20020353235P 20020204 US20030356493 20030203

Probable Assignee: TRI STATE DISTRIBUTION INC

Assignee(s): (std): MICELI DAVID ; MICELI JOSEPH ; TRI STATE DISTRIB INC

Assignee(s): TRI STATE DISTRIBUTION INC

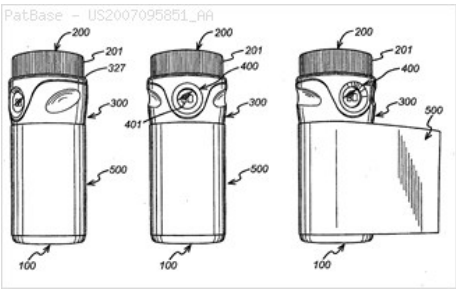
Inventor(s): (std): MICELI DAVID ; MICELI DAVID A ; MICELI JOSEPH

Agent(s): WADDEY AND PATTERSON PC; PHILLIP E

Title: DISPENSER

Abstract: Source: US2007095851A A hand-held dispenser (1) for dispensing a multiplicity of unit products (3) having a storage area (100) for storing the unit products, an outlet opening (311) through which the unit products are dispensable from the dispenser and a dispensing mechanism (350) adapted to dispense a predetermined number of said unit products through the outlet opening per actuation thereof. The dispenser is adapted such that the dispensing mechanism is actuatable by pushing the dispenser into a palm of a user and such that the associated predetermined number of unit products is dispensed into that palm.

Classifications:
International (IPC 8-9): A61J7/00 A61J7/02 B65B59/00 B65D50/04 B65D83/04 (Advanced/Invention); A61J7/00 B65B59/00 B65D50/00 B65D83/04 (Core/Invention)
International (IPC 1-7): A61J7/00 B65D83/04
CPC: A61J1/03 A61J7/04 B65D83/0409 A61J7/0076 A61J7/02 B65D50/041 B65D2583/0481
European: A61J7/00F A61J7/02 B65D50/04B B65D83/04A L65D583/04T2B
US: 221/15 221/15P



Family:

Publication number	Publication date	Application number	Application date
EP1643955 A2	20060412	EP20040763225	20040709
GB200316352 A0	20030813	GB20030016352	20030711
JP2009514557 T2	20090409	JP20060518179T	20040709
US2007095851 AA	20070503	US20040561404	20040709
WO05004785 A2	20050120	WO2004EP07818	20040709
WO05004785 A3	20050414	WO2004EP07818	20040709

Priority:
GB20030016352 20030711 WO2004EP07818 20040709

Probable Assignee: GLAXO GROUP LTD

Assignee(s): (std): GLAXO GROUP LTD ; LAMBLE RALPH GEORGE ; PEARSON ALLEN JOHN ; SNOW TOM ; TURNER PAUL JOHN ; ANDERSON GREGOR JOHN MCLENNAN ; COLLINS JAMES TERENCE

Assignee(s): GLAXO GROUP LIMITED

Inventor(s): (std): ANDERSON GREGOR JOHN M ; ANDERSON GREGOR JOHN MCLENNAN ; COLLINS JAMES T ; COLLINS JAMES TERENCE ; LAMBLE RALPH G ; LAMBLE RALPH GEORGE ; PEARSON ALLEN J ; PEARSON ALLEN JOHN ; SNOW TOM ; TURNER PAUL J ; TURNER PAUL JOHN ; ANDERSON GREGOR J M

Inventor(s): ANDERSON GREGOR JM

Agent(s): GLAXOSMITHKLINE, CORPORATE INTELLECTUAL PROPERTY MAI B475

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DISPENSER

Abstract: Source: US2007228065A A dispenser for dispensing unit products comprises a container for containing the unit products having an access opening and a dispensing module which is adapted to be connected to the container over the access opening by a first type of child resistant **closure** connection. A **closure** is adapted to be connected to the dispensing module by a second type of child resistant **closure** connection.

Classifications:

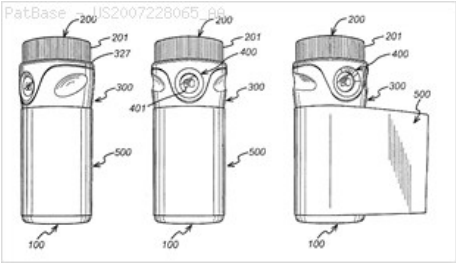
International (IPC 8-9): A61J7/00 A61J7/02 B65D39/00 B65D47/20 B65D50/04 B65D55/00 B65D55/02 B65D83/04 B65G59/00 (Advanced/Invention); A61J7/00 B65D39/00 B65D47/04 B65D55/00 B65D55/02 B65D83/04 B65G59/00 (Core/Invention)

International (IPC 1-7): B65G59/00

CPC: B65D83/0409 B65D2583/0409 B65D2583/049

European: B65D83/04A L65D583/04M1 L65D583/04T2D

US: 221/152 221/4 221/4S



Family:

Publication number	Publication date	Application number	Application date
EP1755994 A2	20070228	EP20050739726	20050520
EP1755994 A4	20110427	EP20050739726	20050520
GB200411553 A0	20040623	GB20040011553	20040524
JP2008500248 T2	20080110	JP20070527471T	20050520
US2007228065 AA	20071004	US20050569218	20050520
WO05115889 A2	20051208	WO2005US17722	20050520
WO05115889 A3	20061228	WO2005US17722	20050520

Priority:
GB20040011553 20040524 WO2005US17722 20050520

Probable Assignee: GLAXO GROUP LTD

Assignee(s): (std): ANDERSON GREGOR JOHN MCLENNAN ; GLAXO GROUP LTD ; PISCULLI VINCENT PATRICK JR

Assignee(s): GLAXO GROUP LIMITED

Inventor(s): (std): ANDERSON GREGOR J M ; ANDERSON GREGOR JOHN MCLENNAN ; PISCULLI JR VINCENT P ; PISCULLI VINCENT PATRICK JR

Inventor(s): PISCULLI JR VINCENT PATRICK ; ANDERSON GREGOR JM

Agent(s): GLAXOSMITHKLINE, CORPORATE INTELLECTUAL PROPERTY MAI B475

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: METHOD OF HOLDING TOGETHER PACKAGES AND COMPONENTS THERETO

Abstract: Source: US2007023313A The disclosure relates to a connecting element adapted to temporarily holding together a plurality of articles, the connecting element comprising a base member provided with a first adhesion area adapted to hold a first secondary article to said base member and a second adhesion area adapted to hold a second secondary article to said base member, wherein the adhesion areas comprise an electrically weakable adhesive. Also disclosed is a package and an article being provided with adhesion areas comprising an electrically weakable adhesive.

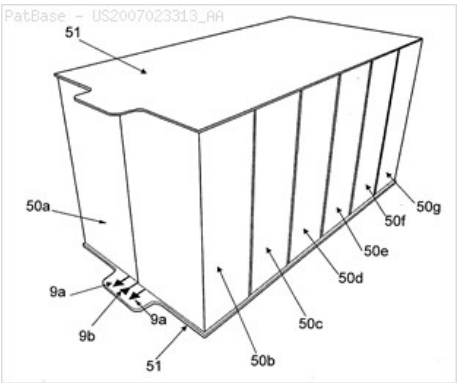
Classifications:

International (IPC 8-9): B32B37/00 B32B7/06 B65D69/00 B23B7/12 B29C63/00 B29C65/76 B29C71/00 B32B43/00 B32B7/02 B32B7/12 B65B43/00 B65B51/00 B65B69/00 B65D17/34 B65D21/00 B65D25/20 B65D27/12 B65D33/16 B65D41/00 B65D47/36 B65D5/42 B65D51/00 B65D53/00 B65D53/42 B65D55/02 B65D65/00 B65D67/02 B65D71/00 B65D73/00 B65D75/32 B65D75/36 B65D75/58 B65D75/60 B65D77/24 C09J201/00 C09J65/76 C09J9/02 F16B11/00 H01L23/02 H01L23/48 (Advanced/Invention); B23B7/06 B29C65/76 B32B43/00 B32B7/06 B32B7/12 B65B17/02 B65B69/00 B65D5/42 B65D51/00 B65D53/00 B65D55/02 B65D69/00 B65D71/00 B65D75/60 C09J9/02 (Advanced/Non-invention); B23B7/00 B29C63/00 B29C65/00 B32B43/00 B32B7/02 B32B7/06 B32B7/12 B65B69/00 B65D17/28 B65D21/00 B65D25/20 B65D41/00 B65D5/42 B65D51/00 B65D53/00 B65D55/02 B65D67/00 B65D69/00 B65D71/00 B65D73/00 B65D75/28 B65D75/52 B65D77/24 C09J201/00 C09J9/00 F16B11/00 H01L23/02 H01L23/48 (Core/Invention); B23B7/00 B29C65/00 B32B43/00 B32B7/06 B32B7/12 B65B17/00 B65B69/00 B65D5/42 B65D51/00 B65D53/00 B65D55/02 B65D69/00 B65D71/00 C09J9/00 (Core/Non-invention)

International (IPC 1-7): B23B7/12 B29C65/76 B32B43/00 B32B7/06 B32B7/12 B65D17/34 B65D41/00 B65D5/42 B65D53/00 B65D71/00 B65D73/00 B65D75/60 **CPC:** B29C65/3492 B32B15/08 B32B15/12 B32B27/10 B32B27/40 B32B2307/202 B32B2439/70 B29C65/3468 Y10S206/813 B29C65/3676 B29C65/3684 B29C65/58 B29K2305/00 B29L2009/003 B29L2031/712 B31B1/90 B31B2201/9071 B32B3/08 B32B7/06 B65D5/42 B65D55/02 B65D71/00 B65D2203/10 B29C65/3456 B29C65/3604 B29K2711/12 B29L2031/7132 B29L2031/7158 B65D5/4275 B65D21/0205 B65D43/162 B65D43/26 B65D71/50 C09J5/00 C09J2205/302 H01M6/30 H01M6/40 H01M10/0436 H05K3/321 H05K2203/105 H05K2203/175 B29C66/53461 B29C66/545 B29C66/549 B65D77/20 B29C66/54 B29K2995/0005 B29L2031/7162 B32B7/12 B32B27/08 B32B2250/02 B32B2307/102 B32B2439/40 B32B2553/00 B65B51/22 B65D53/04 B65D75/32 B29C65/488 B29C65/48 B29C65/4855 B29C66/41 B29C66/474 B29C65/346 B29C65/5057 B29C65/76 B29C66/1122 B29C66/53462 B29C66/542 B29C66/43 B29C66/43121 Y10T156/10 Y10T156/1158 Y10T428/13 Y10T292/48 **European:** B29C65/34 B29C65/34B12 B29C65/34B14 B29C65/36 B29C65/48 B29C65/50C B29C65/76 B29C66/1122 B29C66/43 B29C66/534 B29C66/54 B31B1/90 B32B7/08 B32B3/08 B32B7/06 B65D5/42 B65D55/02 B65B69/00A B65D21/02B3 B65D43/16B B65D43/26 B65D5/42 B65D5/42H2 B65D53/04 B65D55/02 B65D71/00 B65D71/50 B65D75/32 B65D77/20 C09J5/00 H01M10/04F H01M6/30 H01M6/40 H05K3/32B L29C65/34B14 L29C65/48D L29C65/58 L29C65/76 L29K305/00 L29K711/12 L29K995/00C2 L29L31/712 L29L31/7132 L29L31/7158 L29L31/7162 L29L9/00C L31B201/90C10 L32B250/02 L32B307/102 L32B439/40 L32B553/00 L65D203/10 M09J205/302 T05K203/10D T05K203/17C Y02E60/12 **US:** 156/344 156/584 156/60 156/712 206/460 206/813 215/232 220/200 220/359.1 220/359.2 220/359.200S 220/359.3 257/679 257/679P 257/783 257/783P 292/307.00R 292/307R 428/34.1

Family:

Publication number	Publication date	Application number	Application date
AR056441 AA	20071010	AR2006P103339	20060801
AR057707 AA	20071212	AR2006P103340	20060801
AR057708 AA	20071212	AR2006P103341	20060801
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AR058441 AA	20080206	AR2006P103343	20060801
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CA2617491 AA	20080130	CA20062617491	20060718
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CN101233053 A	20080730	CN200680028258	20060718
CN101233053 B	20130123	CN200680028258	20060718
CN101233055 A	20080730	CN200680026495	20060718
DE602006017080 D1	20101104	DE200660017080T	20060718
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EP1912756 A1	20080423	EP20060769645	20060718
EP1912867 A1	20080423	EP20060769641	20060718
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EP1981703 A1	20081022	EP20060769643	20060718
IN00323KN2008 A	20080926	IN2008KN00323	20080123
IN00331KN2008 A	20080926	IN2008KN00331	20080123
IN00349KN2008 A	20080926	IN2008KN00349	20080124
IN00350KN2008 A	20080926	IN2008KN00350	20080124
JP2009502584 T2	20090129	JP20080524941T	20060718
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JP2009525897 T2	20090716	JP20080554181T	20060718
JP4989647 B2	20120801	JP20080524939T	20060718
KR20080031215 A	20080408	KR20077030473	20071227
KR20080033241 A	20080416	KR20087000408	20080107
KR20080034129 A	20080418	KR20087001256	20080116
KR20080091387 A	20081010	KR20087021179	20080829
NO20080196 A	20080225	NO20080000196	20080110
NO20080197 A	20080229	NO20080000197	20080110
NO20080269 A	20080303	NO20080000269	20080110
RU2008107980 A	20090910	RU20080107980	20060718



RU2008107982 A	20090910	RU20080107982	20060718
TW200714527 A	20070416	TW20060127616	20060728
TW200718564 A	20070516	TW20060127629	20060728
TW200718607 A	20070516	TW20060127617	20060728
TW200718614 A	20070516	TW20060127630	20060728
TW200730355 A	20070816	TW20060127628	20060728
US2007023313 AA	20070201	US20060488398	20060718
US2007023382 AA	20070201	US20060488881	20060718
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US7736710 BB	20100615	US20060488881	20060718
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WO07015672 A1	20070208	WO2006SE50261	20060718
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WO07015674 A1	20070208	WO2006SE50264	20060718
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Priority:

US20050704307	20050801	US20050704307P	20050801	US20060488328	20060718
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US20060488360	20060718	WO2006SE50261	20060718	WO2006SE50265	20060718
WO2006SE50262	20060718	WO2006SE50264	20060718	WO2006SE50263	20060718
US20060488881	20060718	US20060488398	20060718	US20060488329	20060718

Probable Assignee: STORA ENSO AB

Assignee(s): (std): BRANZELL PER HENRIK ; FREDLUND MATS ; SANDBERG LARS ; STORA ENSO AB ; STORA ENSO OYJ ; STORAENSO AB

Inventor(s): (std): HENRIK BRANZELL PER ; LARS SANDBERG ; MATS FREDLUND ; SANDBERG LARS ; FREDLUND MATS ; BRANZELL PER HENRIK

Inventor(s): PER HENRIK BRANZELL ; LARDS SDANDBERG

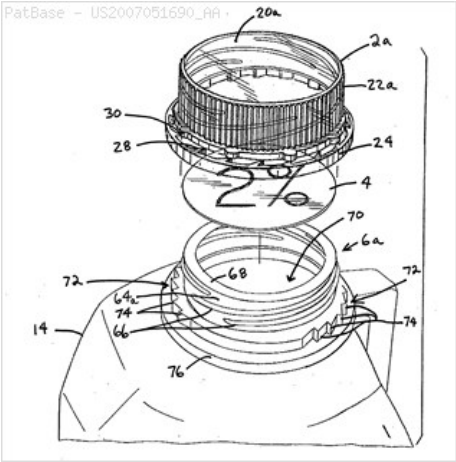
Agent(s): A J PARK; AJ PARK; FETHERSTONHAUGH AND CO; JOHANSSON; GREER BURNS AND CRAIN; GREER BURNS AND CRAIN LTD

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **CAP** WITH VISIBLE **TAMPER-INDICATING** SEAL

Abstract: Source: US2007051690A The inventions disclosed herein include a clear **cap** and **tamper-indicating** seal combination for containers. The preferred **cap** is at least partially non-opaque to allow a customer to perceive the **tamper-indicating** seal through the **cap** at the point of purchase. In a first embodiment, the **tamper-indicating** seal serves as a label, wherein the customer can perceive, through the **cap**, information such as printing which is **indicative** of the contents of the container. In a second embodiment, the **tamper-indicating** seal serves as a **tamper** evident seal, wherein the customer can perceive, through the **cap**, at the point of purchase, whether the seal has been breached. In a third embodiment, the **tamper-indicating** seal serves as both a label and a seal, wherein the **tamper-indicating** seal creates a liquid resistant seal between the **cap** and the opening of the container. In a forth embodiment, the **tamper-indicating** seal serves as both a label and a **tamper** evident seal.

Classifications:
International (IPC 8-9): B65D41/00 B65D51/00 B65D51/18 B65D51/20 B65D55/02 (Advanced/Invention); B65D41/00 B65D51/00 B65D51/18 (Core/Invention)
CPC: B65D55/066 B65D41/045 B65D41/3409 B65D41/46 B65D51/20 B65D2203/02 B65D2251/0015 B65D2251/0093 B65D51/18 B65D55/02 B65D55/024 B65D55/026
European: B65D41/04D2 B65D41/34A1 B65D41/46 B65D51/18 B65D51/20 B65D55/02 B65D55/02F B65D55/02G B65D55/06D L65D203/02 L65D251/00Y2D L65D251/00Y6M
US: 215/232 215/232S 215/252 220/258.1 220/258.100S



Family:

Publication number	Publication date	Application number	Application date
GB200622677 A0	20061227	GB20060022677	20061114
GB2432152 A1	20070516	GB20060022677	20061114
US2007051690 AA	20070308	US20050222429	20050908
US2007051691 AA	20070308	US20050273334	20051114

Priority:

US20050222429 20050908 US20050273334 20051114

Probable Assignee: BLACKHAWK MOLDING CO INC

Assignee(s): (std): BLACKHAWK MOLDING CO INC ; HIDDING DOUGLAS J

Assignee(s): BLACKHAWK MOLDING CO

Inventor(s): (std): HIDDING DOUGLAS J

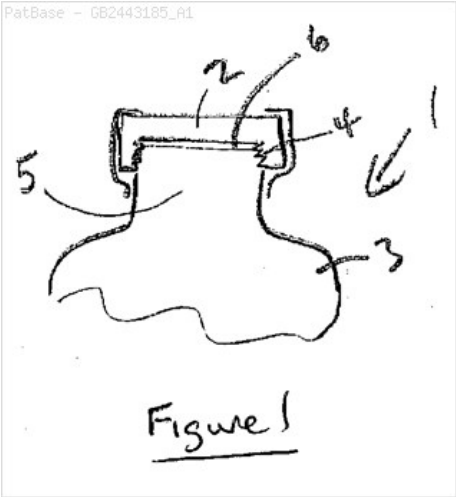
Inventor(s): DOUGLAS J HIDDING ; HIDDING DOUGLAS

Agent(s): DAVID I ROCHE BAKER AND MCKENZIE LLP; DANIEL A TALLITSCH BAKER AND MCKENZIE LLP

Title: A closure

Abstract: Source: GB200621413A A closure 2 for a container 3, the closure 2 comprises a transparent or translucent body with a top to receive a seal member 6 in use and present the seal member for visual inspection. The seal member may be of foil material, and have a block coloured background to indicate the nature or grade of product within the container 3. The body may incorporate a vent, and the seal member may have a temperature sensitive element of coating and/or an age dependent feature. A mark (30, figure 3) in the transparent body may align with a tab element (31, figure 3) of the seal member.

Classifications:
International (IPC 8-9): B65D55/00 B65D55/02 (Advanced/Invention)
CPC: B65D55/066 B65D51/16 B65D79/02 B65D2205/02 B65D55/00 B65D55/02 B65D55/026
European: B65D51/16 B65D55/00 B65D55/02 B65D55/02G B65D55/06D B65D79/02 L65D205/02



Family:

Publication number	Publication date	Application number	Application date
GB200621413 A0	20061206	GB20060021413	20061027
GB2443185 A1	20080430	GB20060021413	20061027

Priority:
GB20060021413 20061027

Probable Assignee: CLOSURES LTD

Assignee(s): (std): CLOSURES LTD

Assignee(s): CLOSURES LIMITED

Inventor(s): (std): ACRES PETER ; JURKIW ANTHONY

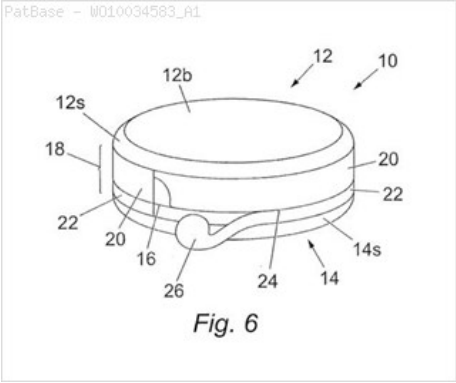
Inventor(s): PETER ACRES ; ANTHONY JURKIW

Title: LABEL AND CONTAINER

Abstract: The invention provides a label (18) comprising a first portion (20) and a second portion (22). The second portion (22) is severable from the first portion (20) along a line of separation (24) extending along at least part of the length of the label. The first portion (20) includes a permanent adhesive such that the first portion can be permanently adhered to a surface. The second portion (22) includes a non-permanent adhesive such that the second portion can be releasably adhered to a surface. The invention also provides a container (10) comprising first (12) and second (14) separable parts and a label (18) that extends at least partially around the outer perimeter of the container (10). The label (18) comprises a first portion (20) and a second portion (22) severable from the first portion (12) along a line of separation (24) extending along at least part of the length of the label.

Classifications:

International (IPC 8-9): B65D55/08 G09F3/02 G09F3/10 (Advanced/Invention);
B65D55/02 G09F3/02 G09F3/10 (Core/Invention)
CPC: B65D55/0818 B65D2101/0007 G09F3/10
European: B65D55/08B G09F3/10 L65D101/00A1



Family:

Publication number	Publication date	Application number	Application date
GB200817459 A0	20081029	GB20080017459	20080924
GB200905540 A0	20090513	GB20090005540	20090331
WO10034583 A1	20100401	WO2009EP60984	20090826

Priority:

GB20080017459 20080924 GB20090005540 20090331

Probable Assignee: BRITISH AMERICAN TOBACCO CO

Assignee(s): (std): BRITISH AMERICAN TOBACCO CO ; GIBSON PAUL ; MCKENZIE AARON

Assignee(s): BRITISH AMERICAN TOBACCO INVESTMENTS LIMITED

Inventor(s): (std): GIBSON PAUL ; MCKENZIE AARON

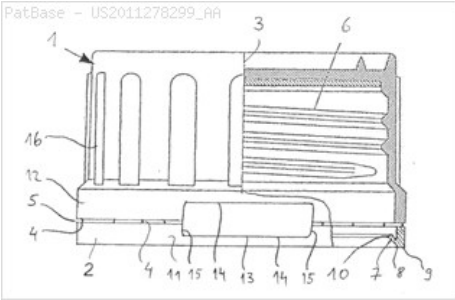
Agent(s): GREY IAN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SCREW CLOSURE HAVING A SECURITY RING AND METHOD FOR PROVIDING A CONTAINER HAVING A SCREW CLOSURE

Abstract: Source: US2011278299A The invention relates to a screw closure (1) having a security ring (2) for closing an opening of a container, the screw closure (1) being connected to the security ring (2) by way of breakable bridging elements (4) and comprising an internal thread (6) for screwing onto an external thread on the opening of the container, the security ring (2) having latching means which are intended to engage behind a bead on the opening of the container such that, when the screw closure (1) is unscrewed for the first time, the bridging elements (4) break and the screw closure (1) and the security ring (2) are separated from one another. The screw closure (1) is characterized in that a security seal (13) is provided on the screw closure (1) and the security ring (2) and is damaged when unscrewing takes place for the first time. The invention also relates to a method for providing a container which makes it possible to attach the security seal to the screw closure in a separate operation from the filling and closing of the container.

Classifications:
International (IPC 8-9): B65D41/02 B65D41/34 B65D49/12 B65D51/00 B65D55/06 (Advanced/Invention);
B65D41/34 B65D49/12 B65D55/06 (Advanced/Non-invention);
B65D41/00 B65D41/34 B65D55/00 B65D55/02 (Core/Invention)
CPC: B65D41/3428 B65D55/06
European: B65D41/34C1 B65D55/06
US: 220/288



Family:

Publication number	Publication date	Application number	Application date
BRPI1007172 A2	20160223	BR2010PI07172	20100129
CA2749756 AA	20110714	CA20102749756	20100129
CN102300780 A	20111228	CN201080005843	20100129
CN102300780 B	20130724	CN201080005843	20100129
DE102009006614 A1	20100812	DE200910006614	20090129
DE502010002537 D1	20130508	DE201050002537T	20100129
EA020670 B1	20141230	EA20110070968	20100129
EA201170968 A1	20120228	EA20110070968	20100129
EP2382139 A1	20111102	EP20100706912	20100129
EP2382139 B1	20130313	EP20100706912	20100129
IN05428CN2011 A	20121005	IN2011CN05428	20110726
KR20110108376 A	20111005	KR20117017705	20100129
MX2011008019 A1	20110817	MX2011008019	20100129
MY154582 A	20150630	MY20110003516	20100129
SI2382139 T1	20130731	SI20100030188T	20100129
US2011278299 AA	20111117	US20100138295	20100129
US9327878 BB	20160503	US20100138295	20100129
WO10086171 A1	20100805	WO2010EP00536	20100129

Priority:
DE200910006614 20090129 WO2010EP00536 20100129 EP20100706912 20100129

Probable Assignee: BAYER INTELLECTUAL PROPERTY GMBH

Assignee(s): (std): BAYER CROPSCIENCE AG ; BAYER IP GMBH ; SCHORMAIR WULF ; SCHUELLER FRANZ PETER

Assignee(s): BAYER CROPSCIENCE AKTIENGESSELLSCHAFT ; BAYER INTELLECTUAL PROPERTY GMBH

Inventor(s): (std): FRANZ PETER SCHUELLER ; SCHORMAIR WULF ; SCHUELLER FRANZ PETER ; WULF SCHORMAIR

Agent(s): ROBIC; ALBIGER JONAS; DYKEMA GOSSETT PLLC; WAGNER MATTHIAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT HW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: IMPRINTED CONTAINER CLOSURE AND METHOD FOR IMPRINTING SAME

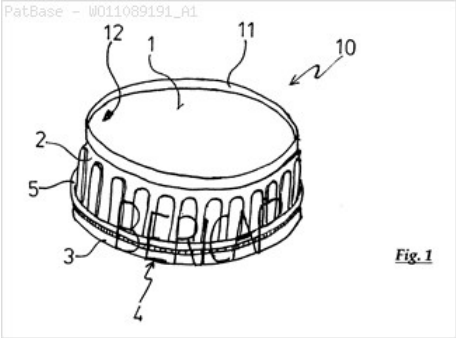
Abstract: The invention relates to an imprinted container closure in the form of a cap (10) consisting of a plurality of closure parts, which comprise an upper face (1), a circumferential jacket (2) and a tamper-proof element (3) which is arranged on one of the other closure parts and is destroyed or at least partially separated from a closure part connected thereto when the closure is opened. In order to create a printed container closure having the above-mentioned features and a specific method for imprinting such a container closure, which make forgeries considerably more difficult and thus can ensure the originality of the correspondingly packaged products to a better extent, according to the invention the closure has a structured outer surface having projecting and/or recessed regions, to which a printed image is applied, which is generated in a non-contact manner and extends over at least one edge of a projecting or recessed region.

Classifications:

International (IPC 8-9): B41J3/407 B65D41/34 B65D55/02 (Advanced/Invention)

CPC: B41J3/4073 B65D41/34 B65D55/026 B65D2101/0023

European: B41J3/407D B65D41/34 B65D55/02G L65D101/00A3



Family:

Publication number	Publication date	Application number	Application date
BR112012013318 A2	20160301	BR20121113318	20110120
CN102712392 A	20121003	CN201180006351	20110120
CN102712392 B	20160504	CN201180006351	20110120
DE102010001120 A1	20110728	DE201010001120	20100122
IN01158KN2012 A	20130125	IN2012KN01158	20120515
WO11089191 A1	20110728	WO2011EP50775	20110120
WO11089191 A9	20110915	WO2011EP50775	20110120

Priority:

DE201010001120 20100122 WO2011EP50775 20110120

Probable Assignee: BERICAP GMBH AND CO KG

Assignee(s): (std): BERICAP GMBH AND CO KG ; KRAUTKRAEMER GUENTER

Inventor(s): (std): KRAUTKRAEMER GUENTER ; GUENTER KRAUTKRAEMER

Inventor(s): ANTRAG AUF NICHTNENNUNG

Agent(s): LIEKE WINFRIED ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: CONTAINER SEALING MEMBER WITH PROTECTED SECURITY COMPONENT AND REMOVAL TAB

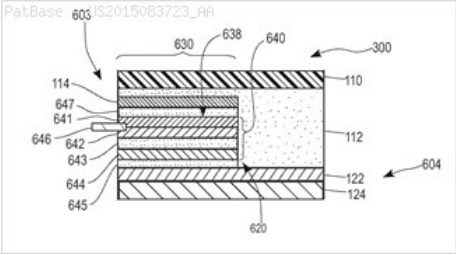
Abstract: Source: US2015083723A A sealing member or closure for a container is provided having a protected security component and a removal tab. The sealing member is provided in the form of a one-piece or a two-piece construction and has a tab and an optical security component configured to be protected such that the optical clarity of the security component is maintained after induction sealing.

Classifications:

International (IPC 8-9): B65D51/22 B65D53/04 B65D55/02 (Advanced/Invention)

CPC: B65D55/026 B65D51/22 B65D51/20

US: 220/258.3 220/259.3



Family:

Publication number	Publication date	Application number	Application date
CA2866378 AA	20140904	CA20132866378	20130308
EP2822871 A1	20150114	EP20130757072	20130308
EP2822871 A4	20151209	EP20130757072	20130308
US2015083723 AA	20150326	US20130383123	20130308
WO13134665 A1	20130912	WO2013US29928	20130308

Priority:

US20120608383P 20120308 WO2013US29928 20130308 US20130383123 20130308

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s): (std): SELIG SEALING PRODUCTS INC

Assignee(s): SELIG SEALING PRODUCTS INC342 EAST WABASH STREETFORRESTIL61741US ; THORSTENSEN WOLL ROBERT WILLIAM107 SANDRINGHAM DRIVEBARRIEO1L4N 0Y9CA

Inventor(s): (std): THORSTENSEN WOLL ROBERT WILLIAM

Inventor(s): THORSTENSEN WOLL ROBERT WILLIAM107 SANDRINGHAM DRIVEBARRIEO1L4N 0Y9CA

Agent(s): GOWLING LAFLEUR HENDERSON LLP; JONES HELEN MM; KRATZ RUDY ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMPOSITE CONTAINER **LID** WITH IC TAG

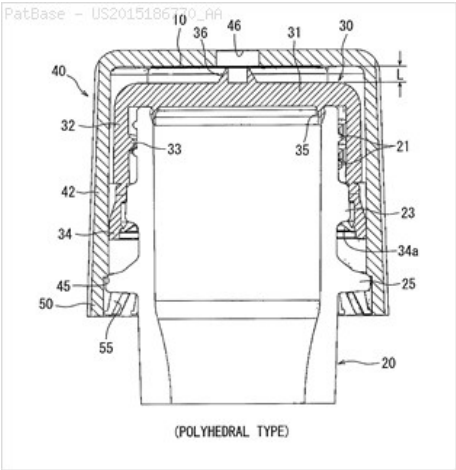
Abstract: Source: US2015186770A A composite container **lid** for a packing container, which comprises an inner **cap** 30 fitted onto the container mouth portion 20, an over-**cap** 40 fitted onto the inner **cap** 30, and an IC tag 10, wherein an engaging means is provided between the inner surface of a skirt 42 of the over-**cap** 40 and the outer surface of a cylindrical wall 32 of the inner **cap** 30, the IC tag 10 comprises a resin film 1 that includes an IC chip 3, an antenna 5 and an unsealing detector circuit 9, and the IC tag 10 is attached to the inner **cap** 30 or to the over-**cap** 40 in a manner that the unsealing detector circuit 9 is broken by the motion of the over-**cap** 40 relative to the inner **cap** 30 caused in the step of unsealing the inner **cap** 30.

Classifications:

International (IPC 8-9): B65D41/04 B65D41/34 B65D51/18 B65D51/24 B65D55/02 G06K19/00 G06K19/06 G06K19/07 G06K19/077 G06K19/10 G08B13/24 (Advanced/Invention)

CPC: B65D51/245 G06K19/07798 G08B13/2434 B65D2251/0015 B65D2251/0078 B65D51/18 B65D2203/10 G06K19/07 B65D41/3423 B65D41/3447 B65D55/02

US: 235/492



Family:

Publication number	Publication date	Application number	Application date
CN104411597 A	20150311	CN201380033967	20130625
EP2865607 A1	20150429	EP20130810735	20130625
EP2865607 A4	20160309	EP20130810735	20130625
JP2014005032 A2	20140116	JP20120142193	20120625
JP2014005036 A2	20140116	JP20120142370	20120625
JP2014189306 A2	20141006	JP20130067084	20130327
KR20150034181 A	20150402	KR20157001324	20130625
US2015186770 AA	20150702	US20130407713	20130625
US9286565 BB	20160315	US20130407713	20130625
WO14002971 A1	20140103	WO2013JP67303	20130625

Priority:

JP20120142193 20120625 JP20120142370 20120625 JP20130067084 20130327
WO2013JP67303 20130625

Probable Assignee: TOYO SEIKAN KAISHA LTD

Assignee(s): (std): NIPPON CLOSURES CO LTD ; TOYO SEIKAN GROUP HOLDINGS LTD ; TOYO SEIKAN KAISHA LTD

Assignee(s): NIPPON CLOSURES CO

Inventor(s): (std): ARAI TOSHIYUKI ; KIKUCHI TAKAYUKI ; KUROSAWA TAKAHIRO ; SAHARA TORU ; SAWARA TORU ; SUGI MAMIKO

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; GREENBLUM AND BERNSTEIN PLC; ONO HISAZUMI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: CLOSURE FOR CONTAINER

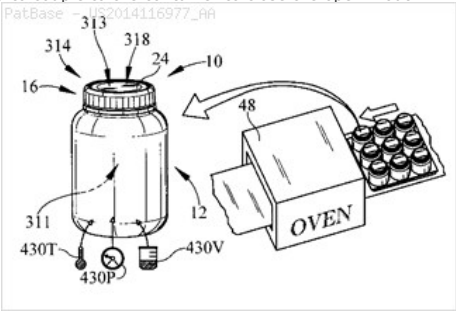
Abstract: Source: US2014116977A A canister includes a container and a closure. The container is formed to include a product-storage region and an open mouth that opens into the product-storage region. The closure is configured to couple to the container to close the open mouth.

Classifications:

International (IPC 8-9): B65D41/04 B65D55/02 (Advanced/Invention)

CPC: B65D55/026 B65D41/04 B65D41/0442 B65D41/0492 B65D53/02 B65D79/005 A61L2/04

US: 215/230



Family:

Publication number	Publication date	Application number	Application date
US2014116977 AA	20140501	US20130063681	20131025
WO14066810 A1	20140501	WO2013US66899	20131025

Priority:

US20120719232P 20121026 US20130826568P 20130523 US20130063681 20131025

Probable Assignee: BERRY PLASTICS CORP

Assignee(s): (std): BERRY PLASTICS CORP

Inventor(s): (std): MINNETTE JEFFREY C

Agent(s): REZEK RICHARD A ET AL

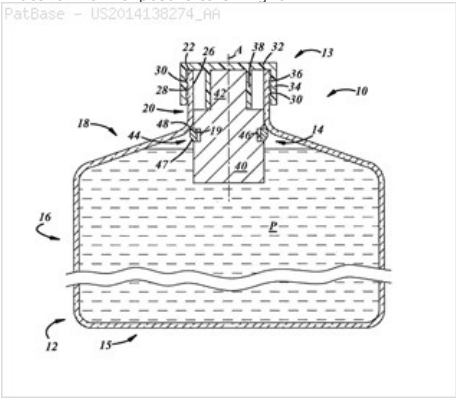
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PRODUCT AND PACKAGE WITH A PHOTSENSITIVE USE-EVIDENT FEATURE

Abstract: Source: US2014138274A A product includes a container, a photosensitive material carried by the container and responsive to ultraviolet light, and a UV protector carried by the container to protect the photosensitive material from exposure to UV light.

Classifications:

International (IPC 8-9): B65B43/00 B65D25/00 B65D49/00 B65D51/24 B65D55/02 B65D65/38 B65D81/00 B65D85/00 (Advanced/Invention)
CPC: B65D25/00 B65D81/00 B65B43/00 B65D49/00 B65D51/248 B65D55/026 B65D2101/00 B65D2203/00 B65D2203/02 B65D2203/04 B65D2203/12
US: 206/459.1 206/524.6 53/452 53/492



Family:

Publication number	Publication date	Application number	Application date
AU2013345212 AA	20140522	AU20130345212	20131105
CA2889324 AA	20150423	CA20132889324	20131105
CL2015001260 A1	20150925	CL20150001260	20150511
CN104781156 A	20150715	CN201380059846	20131105
CO7350634 A2	20150810	CO20150086358	20150417
EP2920083 A1	20150923	EP20130805633	20131105
MX2015005718 A1	20150820	MX20150005718	20131105
PE09852015 A1	20150620	PE20150000628	20131105
TW201429831 A	20140801	TW20130140855	20131111
US2014138274 AA	20140522	US20120679506	20121116
WO14078128 A1	20140522	WO2013US68472	20131105

Priority:

US20120679506 20121116 WO2013US68472 20131105

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): (std): OWENS BROCKWAY GLASS CONTAINER

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INC ; SOLUNIN ANATOLY ; SMITH ROGER P ; OWENS BROCKWAY GLOSS CONTAINER INC ; ANDERSON CHRIS D ; BRYANT JESSICA R ; CLARK TERENCE J ; COOPER SCOTT ; FEYGENSON OLEG

Inventor(s): (std): ANDERSON CHRIS D ; BRYANT JESSICA R ; BRYANT JESSICA ROSE ; CLARK TERENCE J ; COOPER SCOTT ; FEYGENSON OLEG ; SMITH ROGER P ; SOLUNIN ANATOLY

Inventor(s): TERENCE J CLARK ; ANATOLY SOLUNIN ; JESSICA R BRYANT ; OLEG FEYGENSON ; ROGER P SMITH ; SCOTT COOPER ; CHRIS D ANDERSON

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON AND LANGLOIS LTDA; BLUMBACH ZINNGREBE; SMITH SUSAN L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PACKAGE OR PRODUCT HAVING A USE **INDICATOR**

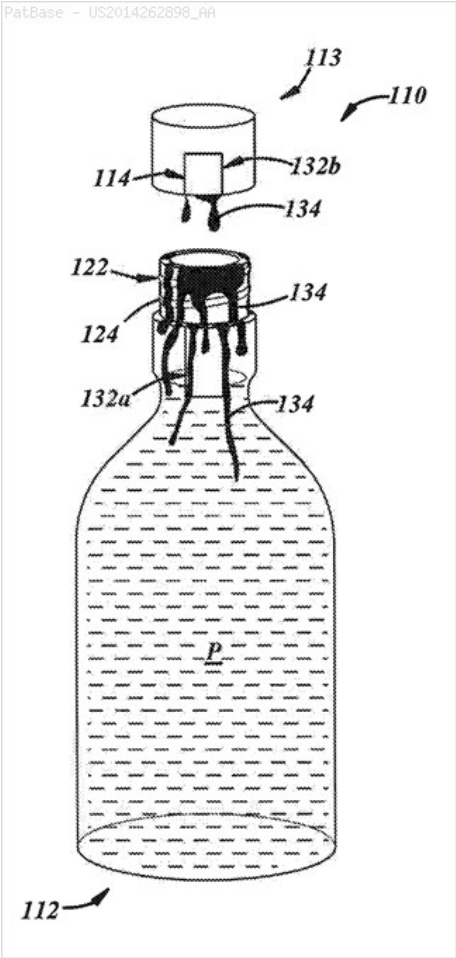
Abstract: Source: US2014262898A A package includes a container, a product carried within the container, a **closure** coupled to the container, and a use **indicator** coupled to at least one of the container or the **closure** so that, upon removal of the **closure** from the container or upon removal of the product from within the container, a coloration of the package changes irreversibly to **indicate** to a user that the package has been used.

Classifications:

International (IPC 8-9): B65B3/02 B65B69/00 B65B7/00 B65D49/12 B65D50/00 B65D55/02 B65D85/00 (Advanced/Invention)

CPC: B65D55/026 B65D50/00 B65B7/00 B65B3/02 B65B69/00 B65D85/00

US: 206/459.1 222/1 53/452 53/471 53/492



Family:

Publication number	Publication date	Application number	Application date
AU2014237891 AA	20140925	AU20140237891	20140305
TW201446610 A	20141216	TW20140109004	20140313
US2014262898 AA	20140918	US20130832729	20130315
US2015225143 AA	20150813	US20150691722	20150421
WO14149726 A1	20140925	WO2014US20578	20140305

Priority:

US20130832729 20130315 WO2014US20578 20140305 US20150691722 20150421

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): (std): OWENS BROCKWAY GLASS CONTAINER

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INC

Inventor(s): (std): ANDERSON CHRIS D ; HERMAN MEGAN ; MALCOLM BRAD ; RUBIANO PAOLA A

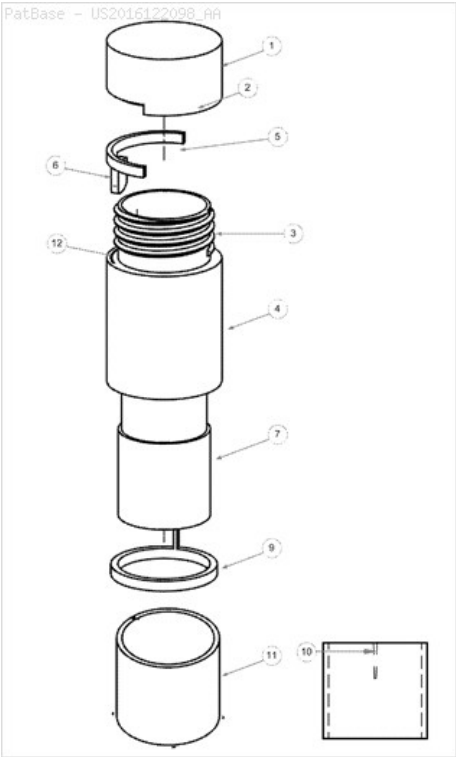
Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMITH SUSAN L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SYSTEM FOR PREVENTING THE **TAMPERING** AND RE-PACKAGING OF CONTAINERS MADE FROM GLASS, PLASTIC OR OTHER MATERIALS

Abstract: Source: US2016122098A The invention relates to a system for preventing the **tampering** and re-packaging of containers made from glass, plastic or other materials, taking the form of a device having a double wall of glass and a series of mechanisms ensuring that the double wall is stained at the moment the bottle is opened. The main advantage of the device is that since the **ink** is released inside a double wall of glass, the person can see in real time if the bottle is from the company, without opening the bottle and prior to consuming the product contained therein. An additional advantage is that the **ink** is totally isolated from the product by means of one of the glass walls, such that the composition of the product is not altered by the components of the security **ink**.

Classifications:
International (IPC 8-9): B65D41/04 B65D55/02 (Advanced/Invention)
CPC: B65D55/026 B65D41/0442



Family:

Publication number	Publication date	Application number	Application date
US2016122098 AA	20160505	US20130895218	20130610
WO14199190 A1	20141218	WO20131B01293	20130610

Priority:

WO20131B01293 20130610

Probable Assignee: ACEVEDO MADRID DANIEL EDUARDO

Assignee(s): (std): ACEVEDO MADRID DANIEL EDUARDO ; CADAVID TORO MARIA BEATRIZ

Inventor(s): (std): ACEVEDO MADRID DANIEL EDUARDO ; CADAVID TORO MARIA BEATRIZ

Agent(s): RENDON BENJUMEA

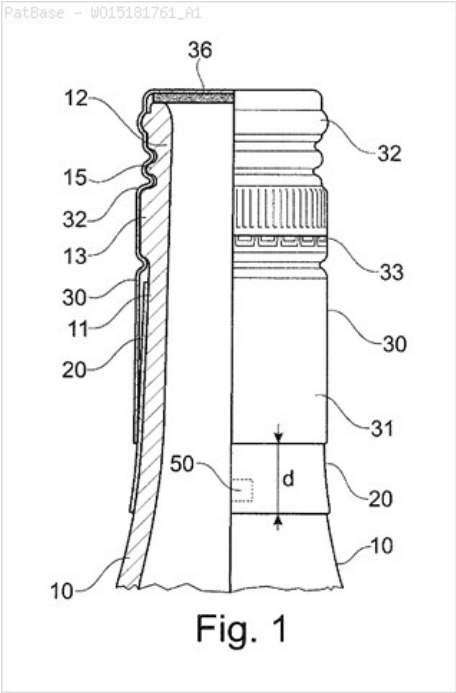
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SECURE CONTAINER AND SECURING METHOD

Abstract: The present invention relates to a secure container (10), having a neck (11) provided with a sealing member (30) and a security sleeve (20) including a shell made of a heat-shrinkable material, said sleeve being shrunk onto the neck and extending exclusively below the sealing member when the container is vertical with the sealing member towards the top or being partially covered by the sealing member, the security sleeve having at least one security element (50).

Classifications:

International (IPC 8-9): B65D23/08 B65D55/02 B65D55/08
G09F3/03 (Advanced/Invention)
CPC: B65D23/0878 B65D2203/06



Family:

Publication number	Publication date	Application number	Application date
FR3021637 A1	20151204	FR20140054848	20140528
WO15181761 A1	20151203	WO2015181761 A1	20150528

Priority:

FR20140054848 20140528

Probable Assignee: ARJOWIGGINS SECURITY

Assignee(s): (std): ARJOWIGGINS SECURITY ; ARJOWIGGINS SOLUTIONS

Inventor(s): (std): MOURAO JEROME ; RANCIEN SANDRINE

Inventor(s): SANDRINE RANCIEN ; JEROME MOURAO

Agent(s): CABINET NONY; TANTY FRANCOIS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW