

Diego Gonzalez

1) Family number: 63551543 (US2016264270A)

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Title: SEALING FOIL LINERS TO CONTAINERS

Abstract: An apparatus for sealing a foil liner to a container. The apparatus comprises a seal head that includes a body having a first end, a second end, and an axis extending through the first and second ends. The body further includes a sealing surface at the second end thereof facing away from the first end. The seal head further includes fluid path(s) for passing fluid through and out of the seal head and onto the foil liner. A method for sealing a foil liner to a container is also provided wherein a sealing surface of a seal head is aligned with a sealing surface of the container, wherein a peripheral edge of the foil liner is disposed between the sealing surfaces of to the seal head and the container. Fluid is then passed through fluid path(s) in the seal head and out of the seal head and onto the foil liner.

Classifications:

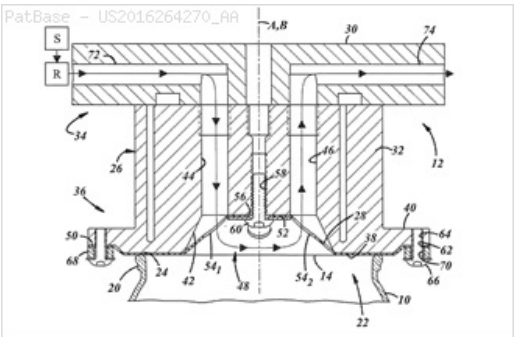
International (IPC 8-9): B65B51/10 B65B7/16

B65B7/28 (Advanced/Invention);

B65B7/16 (Core/Invention)

CPC: B65B7/2878 B65B7/164

US: 53/478



Family:

Publication number	Publication date	Application number	Application date
AR104016 AA	20170621	AR2016P100656	20160311
AU2016229198 AA	20170803	AU20160229198	20160304
BR112017015901 A2	20180410	BR20171115901	20160304
CA2975738 AA	20170802	CA20162975738	20160304
CL2017002288 A1	20180420	CL20170002288	20170908
CO20170008987 A2	20171110	CO20170008987	20170831
DE602016008212 D1	20190103	DE201660008212T	20160304
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EP3268284 B1	20181212	EP20160713662	20160304
ID201804646 A	20180504	ID2017P0006010	20160304
MX2017011097 A1	20171110	MX20170011097	20160304
PE14662017 A1	20171011	PE20170001418	20160304
TH178550 A	20180802	TH20171005205	20160304
US2016264270 AA	20160915	US20150645531	20150312
WO16144725 A1	20160915	WO2016US20832	20160304

Priority:

US20150645531 20150312 EP20160713662 20160304 WO2016US20832 20160304

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

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

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG ; BROZELL BRIAN J ; CHISHOLM BRIAN J ; OLSAVSKY JOSEPH E

Inventor(s): (std): BROZELL BRIAN J ; OLSAVSKY JOSEPH E ; CHISHOLM BRIAN J ; BRIAN J BROZELL ; BRIAN J CHISHOLM ; JOSEPH E OLSAVSKY

Inventor(s): BROZELL BRIAN J MAUMEE ; CHISHOLM BRIAN J SYLVANIA ; OLSAVSKY JOSEPH E WATERTVILLE ; BRIAN CHISHOLM J ; BRIAN BROZELL J ; JOSEPH OLSAVSKY E

Agent(s): SHELSTON IP PTY LTD; GOWLING WLG CANADA LLP; JOHANSSON AND LANGLOIS; JUAN PABLO CADENA SARMIENTO; BLUMBACH ZINNGREBE PATENT U RECHTSANWAELTE PARTG MBB; BLUMBACH ZINNGREBE; BLUMBACH ZINNGREBE PATENT U RECHTSANWAELTE; IRYT WIDJOJO; 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

2) Family number: 1299557 (US4094460A)

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Title: CLOSURE ASSEMBLY AND PACKAGE

Abstract: A closure assembly is disclosed which includes a plastic sealing ring having an annular channel in it for receiving and sealing against the entrance mouth of a container, a metal foil liner spanning the sealing ring and a flexible plastic overcap which receives the sealing ring and foil liner therein. The foil liner has a heat seal coating on one or both faces for sealing to the sealing ring and, in some packages, to the plastic overcap. The three-piece closure assembly is positioned on the entrance mouth of a container and the foil liner is induction heated to soften the heat seal coating thereon to seal the liner to the sealing ring. Induction heating may also be employed to adhesively join the foil liner to the undersurface of the overcap and seal the sealing ring to a foil layer in the container body.

Classifications:

International (IPC 8-9): B65D41/18 B65D43/08 B65D51/18

B65D51/20 (Advanced/Invention);

B65D43/08 B65D51/18 (Advanced/Non-invention);

B65D43/08 B65D51/18 (Core/Invention)

International (IPC 1-7): B65D15/08 B65D3/30 B65D41/02 B65D41/18

B65D43/06 B65D43/08 B65D51/18 B65D51/20 B65D53/02 B65D53/08

CPC: B65D51/20 B65D2251/0015 B65D2251/0093 B65D2543/00435

B29C65/3644 B29C65/3656 B29C65/3676 B29C65/368 B29C65/48

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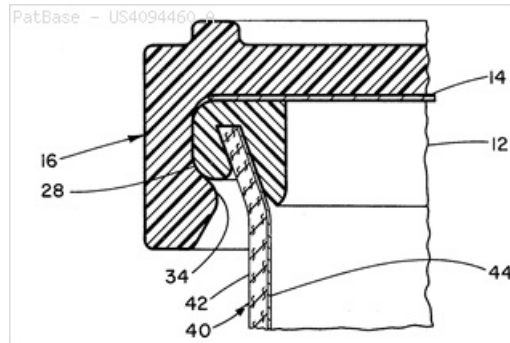
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US: 215/232 215/350 215/352 220/258.1 229/123.1 229/125.05

229/125.13 229/43 229/5.8



Family:

Publication number	Publication date	Application number	Application date
AU197723591 A1	19780928	AU19770023591	19770323
AU508289 B2	19800313	AU19770023591	19770324
CA1054562 A1	19790515	CA19770274973	19770329
DE2718692 A1	19771103	DE19772718692	19770425
DE2718692 C2	19820218	DE19772718692	19770425
FR2349510 A1	19771125	FR19770012441	19770425
FR2349510 B1	19800814	FR19770012441	19770425
GB1519939 A	19780802	GB19770015578	19770414
JP52130765 A2	19771102	JP19770047509	19770426
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US4094460 A	19780613	US19760680360	19760426

Priority:

GB19760012228 19760326 US19760680360 19760426

Probable Assignee: ALUMINUM CO OF AMERICA

Assignee(s): (std): ALUMINUM CO OF AMERICA

Assignee(s): ALUMINUM CO OF AMERICA PITTSBURGH PA ; ALUMINUM COMPANY OF AMERICA ; ALUMINUM COMPANY OF AMERICA PITTSBURGH PA US ; ALUMINUM CY OF AMERICA ; CALLENDER ROBERT E ; PROCESS SCIENTIFIC INNOVATIONS LTD ; SCANGA THEODORE P ; ALUMINIUM CO OF AMERICA

Inventor(s): (std): SCANGA THEODORE PAUL ; CALLENDER ROBERT EMERSON ; SCANGA T P ; CALLENDER R E ; SCANGA THEODORE P ; CALLENDER ROBERT E ; SEODOA POORU SUKIYANGA ; ROBAATO EMAASON KIYARENDAA

Inventor(s): THEODORE PAUL SCANGA ; ROBERT EMERSON CALLENDER ; CALLENDER ROBERT EMERSON TARENTUM PA ; WALKER B HUNTER 3 P ; RE CALLENDER ; TP SCANGA ; THEODORE PAUL SCANGA ET ROBERT EMERSON CALLENDER ; R E CALLENDER ; T P SCANGA ; EMERSON CALLENDER ROBERT ; PAUL SCANGA THEODORE ; CALLENDER ROBERT EMERSON TARENTUM PA US ; SCANGA THEODORE PAUL LOWER BURRELL US

Agent(s): DM; DAVIES COLLISON CAVE PTY LTD

3) Family number: 1544685 (US4237360A)

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Title: INDUCTION HEAT SEALING

Abstract: A system is disclosed for sealing a metal foil membrane on the end of a container such as a composite container using a rotating turret having a plurality of spindles in it with non-metal rotating heads on the spindles for pressing a closure and foil membrane against the container sealing surface and rotating the container-closure assemblies about the axis of the container as they are moved through a magnetic field produced by an induction heating coil disposed at least partway around the turret. The container-closure assemblies may be moved through the magnetic field in less than one second to heat the sealing area of the foil membrane and metal foil liner in the container to the required sealing temperature while minimizing heating of the membrane beyond the area of sealing contact with the container. Either the foil membrane or container liner or both have a heat seal resin thereon which is softened or melted by the induced heat in the membrane and seals the membrane to the container when the container-closure assemblies are removed from the magnetic field.

Classifications:

International (IPC 8-9): B29C65/02 B29C65/78 B29C65/80 B65B51/22

B65B7/28 B65H7/00 B67B5/00 H05B6/00 (Advanced/Invention);

B29C65/02 B29C65/78 B65B51/22 B65B7/28 B67B5/00 (Core/Invention)

International (IPC 1-7): B21D51/26 B29C27/02 B31B1/90 B65B51/22

B65B7/28 B65D43/08 B65H7/00 B67B5/00 F04B43/10 H05B6/00

H05B6/10

CPC: B65B51/227 B29C65/3644 B29C65/3656 B29C65/368 B29C65/7885

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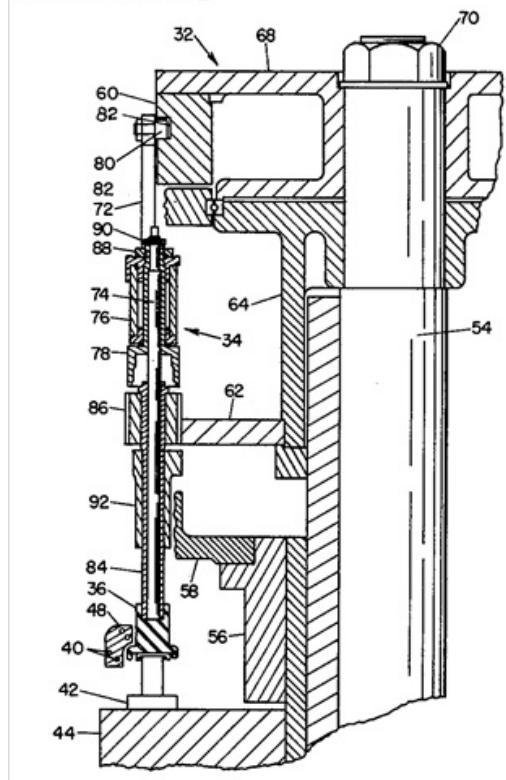
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B65B7/28F4

US: 156/272.4 156/379.7 156/380.9 156/69 219/10.41 219/604 219/633

**Family:**

Publication number	Publication date	Application number	Application date
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CH632204 A	19820930	CH19790009379	19791018
DE2942022 A1	19800514	DE19792942022	19791017
FR2440311 A1	19800530	FR19790025932	19791018
FR2440311 B1	19840914	FR19790025932	19791018
GB2034632 A1	19800611	GB19790033233	19790925
GB2034632 B2	19821110	GB19790033233	19790925
IT1194829 A	19880928	IT19790050599	19791018
IT7950599 A0	19791018	IT19790050599	19791018
JP5064093 A2	19800514	JP19790134720	19791018
MX149087 A	19830819	MX19790179347	19790920
SE442004 B	19851125	SE19790007645	19790914
SE442004 C	19860306	SE19790007645	19790914
SE7907645 A	19800507	SE19790007645D	19790914
US4237360 A	19801202	US19780958055	19781106

Priority:

US19780958055 19781106 CA19790331101 19790704

Probable Assignee: ALUMINUM CO OF AMERICA**Assignee(s):** (std): ALUMINUM CO OF AMERICA**Assignee(s):** ALUMINUM COMPANY OF AMERICA ; ALUMINUM CY OF AMERICA ; POHLENZ ELMER E**Inventor(s):** (std): ERUMAA YUJIN PORENTSU ; POHLENZ E E ; POHLENZ ELMER E ; POHLENZ ELMER EUGENE**Inventor(s):** EUGENE POHLENZ ELMER ; E E POHLENZ ; ELMER EUGENE POHLENZ**Agent(s):** SMART AND BIGGAR**4) Family number: 52608002 (US2013020324A)**

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Title: SEALING MEMBER WITH REMOVABLE PORTION FOR EXPOSING AND FORMING A DISPENSING FEATURE

Abstract: A sealing member or inner seal for a sealing to a rim of a container is described herein that is capable of initially providing sealing for the container and subsequently for providing a dispenser or dispensing feature having a cleanly formed opening or other passage therethrough for dispensing container contents. The sealing members or inner seals herein are constructed from flexible sheets or laminates defining one or more integrated or preformed dispensing feature(s) or element(s) for dispensing contents from the container. The one or more integrated dispensing feature(s) or element(s) are initially covered on both sides to be exposed for use upon removal of a portion of the sealing member.

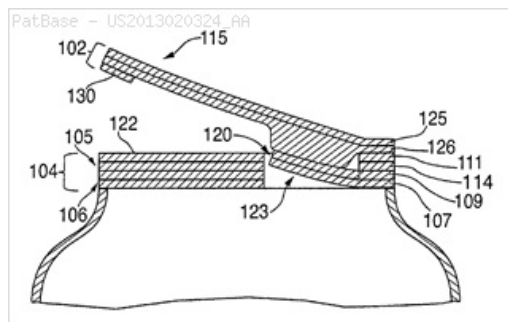
Classifications:

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 B32B3/16 B32B3/20 B32B3/26 B32B3/30 B32B7/06 B32B7/10 B32B7/12
 B65D17/34 B65D17/50 B65D39/00 B65D47/36 B65D51/20 B65D53/04

B65D53/08 B65D77/20 (Advanced/Invention)

CPC: B65D17/501 B65D77/206 B32B1/02 B32B3/04 B32B3/16 B32B3/20 B32B3/266 B32B3/30 B32B7/06 B32B7/10 B32B7/12 B32B15/046 B32B15/08 B32B27/065 B32B27/08 B32B27/16 B32B27/306 B32B27/308 B32B27/32 B32B27/36 B32B2266/025 B32B2266/0264 B32B2439/40

US: 1/1 215/232 215/250 220/258.2 220/266 220/270



Family:

Publication number	Publication date	Application number	Application date
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AU2012272897 BB	20170216	AU20120272897	20120621
BR112013033296 A2	20170301	BR20131133296	20120621
BR112013033296 A8	20180717	BR20131133296	20120621
CA2839895 AA	20131218	CA20122839895	20120621
CA2839895 C	20190514	CA20122839895	20120621
CN103826986 A	20140528	CN201280031057	20120621
CN103826986 B	20160608	CN201280031057	20120621
CO6930330 A2	20140428	CO20140014361	20140124
EP2723649 A1	20140430	EP20120802009	20120621
EP2723649 A4	20141231	EP20120802009	20120621
IN00417CN2014 A	20150403	IN2014CN00417	20140117
JP2014520046 T2	20140821	JP20140517170T	20120621
KR101875176 B1	20180706	KR20147001836	20120621
KR20140066690 A	20140602	KR20147001836	20120621
MX2013014930 A1	20140430	MX20130014930	20120621
MX339041 B	20160505	MX20130014930	20120621
RU2013157761 A	20150727	RU20130157761	20120621
TW201313569 A	20130401	TW20120122379	20120622
US2013020324 AA	20130124	US20120529504	20120621
US2014284331 AA	20140925	US20140298378	20140606
US8746484 BB	20140610	US20120529504	20120621
US9278793 BB	20160308	US20140298378	20140606
WO12177895 A1	20121227	WO2012US43568	20120621

Priority:

US20110501075P 20110624 US20120529504 20120621 WO2012US43568 20120621
US20140298378 20140606

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s): (std): BRUCKER STEVEN A ; THORSTENSEN WOLL ROBERT WILLIAM ; SELIG SEALING PRODUCTS INC ; SELIG SEALING INC

Assignee(s): GENERAL ELECTRIC CAPITAL US AGENT AS CORP

Inventor(s): (std): BRUCKER STEVEN A ; ROBERT WILLIAM THORSTENSEN WOLL ; THORSTENSEN WOLL ROBERT WILLIAM ; STEVEN A BRUCKER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; SILVANA MARIA LOPEZ DIAZ; JONES HELEN MM; FITCH EVEN TABIN AND FLANNERY LLP; KRATZ RUDY 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 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 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

5) Family number: 30455912 (US2001000602A)

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Title: Snap-on, screw-off cap and container neck

Abstract: A tamper-evident, snap-on, screw-off closure is used with a specially shaped container neck. The neck has double lead external threads and, below the threads, a conical wall having external ratchet teeth. The closure has an upper skirt having internal threads mating with the neck threads. A conical lower skirt is connected to the upper skirt by a plurality of frangible bridges. The lower skirt has internal ratchet teeth to mate with the neck ratchet teeth. The cap skirt threads are double pitch and slightly over 360 degrees in length. When the cap is applied to the neck it snaps on in two stages. The lower skirt has a tear tab which, when pulled, fractures the lower skirt on a vertical line. Continued pulling on the tab sequentially fractures the bridges.

Classifications:

International (IPC 8-9): B29C65/00 B29C65/02 B65B7/28 B65D1/02 B65D39/00 B65D41/04 B65D41/17 B65D41/34 B65D41/46 B65D41/47 B65D41/48 B65D51/18 B65D51/20 B65D55/08 B65D77/20 B67B3/00 B67B3/20 (Advanced/Invention); B65D77/20 (Advanced/Non-invention);

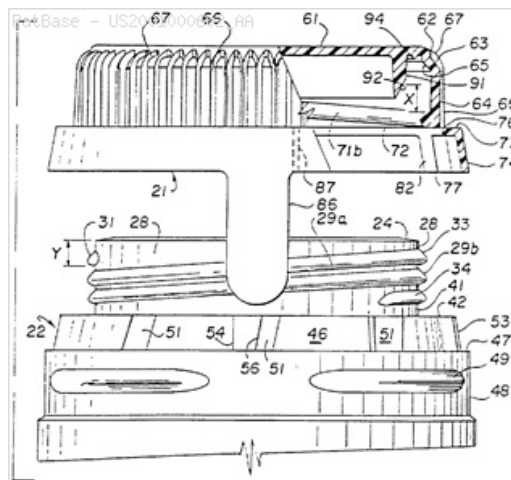
B29C65/00 B29C65/02 B65D1/02 B65D41/02 B65D41/04 B65D41/32
B65D41/34 B65D51/18 (Core/Invention);
B65D77/10 (Core/Non-invention);
B65D (Subclass/Invention)

International (IPC 1-7): B65B7/28 B65D B65D1/02 B65D39/00
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B67B3/20

CPC: B29C65/561 B29C65/58 B29C66/542 B29L2031/7158 B65D41/485
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L65D251/00Y6M L65D501/02Y9 L65D577/20M1

US: 156/69 215/232 215/254 215/256 215/307 215/318 215/32 215/320 215/329 215/332 215/350 215/351 215/354 215/44
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Family:

Publication number	Publication date	Application number	Application date
AU199228600 A1	19930503	AU19920028600	19921006
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US2005269282 AA	20051208	US20050057952	20050214
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US6082567 A	20000704	US19970956633	19971023
US6173853 BA	20010116	US19990356063	19990719
US6439412 BB	20020827	US20000746882	20001222
US6637611 BB	20031028	US20020210716	20020730
WO9307070 A1	19930415	WO1992US08493	19921006
WO9420380 A1	19940915	WO1994US02614	19940310
WO9602431 A1	19960201	WO1995US00704	19950117
WO9814373 A1	19980409	WO1997US17340	19970926
WO9957033 A1	19991111	WO1999US07951	19990412
ZA9300100 A	19930810	ZA19930000100	19930107

Priority:

US19900565638	19900809	CA19912047916	19910725	US19910772945	19911008
EP19910309273	19911009	US19920830133	19920131	US19920951653	19920925
GB19940004495	19921006	GB19940023499	19921006	GB19950011099	19921006
GB19950025299	19921006	WO1992US08493	19921006	US19930029177	19930310
GB19930011495	19930603	GB19950017979	19940310	GB19960021311	19940310
WO1994US02614	19940310	US19940213864	19940316	US19940274911	19940714
US19940329210	19941026	WO1995US00704	19950117	US19950456781	19950601
US19950456744	19950601	US19950456741	19950601	GB19960011601	19951208
US19960664101	19960611	US19960672688	19960628	US19960721852	19960930
US19970781453	19970110	US19970807720	19970228	US19970853669	19970509
WO1997US17340	19970926	US19970956633	19971023	US19980071625	19980501
WO1999US07951	19990412	US19990356063	19990719	US20000746882	20001222
US20020210716	20020730	US20030668780	20030922	US20050057952	20050214

Probable Assignee: PORTOLA PACKAGING INC

Assignee(s): (std): PORTOLA PACKAGING INC ; CAP SNAP CO

Assignee(s): CAP SNAP CO A CORP OF CALIFORNIA ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGE ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGENT AS CORP ; HELLER FINANCIAL ; HELLER FINANCIAL INC ; WAYZATA INVESTMENT PARTNERS LLC ; WELLS FARGO FOOTHILL LLC AS AGENT ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDI ; WELLS FARGO FOOTHILL LLC AGENT AS ; HELLER FINANCIAL INC A DE CORP ; HELLER FINANCIAL INC A DELAWARE BUSINESS TRUST ; LUCH DANIEL ; PORTOLA PACKAGING INC F K A CAP SNAP CO ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDIN ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDINATED CREDITORS) ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDINATED CREDITORS ; REPP RICHARD E

Inventor(s): (std): HENSON JOHNNY S ; KRISCHKE KURT ; KRISCHKE KURT A ; WEST WILLIAM R ; RICHARD E REPP ; REPP RICHARD E ; LUCH DANIEL ; DANIEL LUCH ; CHENAULT RAWSON L ; BIETZER STEVEN H ; ABSOLOM ANNA

Inventor(s): ANNA ABSOLOM ; RAWSON L CHENAULT ; STEVEN H BIETZER

Agent(s): SMART AND BIGGAR; DORSEY AND WHITNEY LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

6) Family number: 61451665 (US2016016681A)

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Title: INDUCTION HEAT SEALED CONTAINER CLOSURES

Abstract: Container closures for bottles, cans, tubs, etc. having a sloping or slanted flange on the container which matches a complementary flange on a closure cap. The flange is disposed at an angle of at least 10 degrees and a preferred angle of about 20 degrees for a conventional 63 mm closure and a preferred width of about 0.125 to 0.175 inches. A foil liner carried by the cap includes an induction heat activated adhesive on at least the portion thereof facing the complementary flange on the container for greatly increasing burst, vacuum and drop impact strength of the container because the adhesion is in shear rather than peel. Provision can be made for facilitating peeling of the liner to assist the consumer in opening the container. The liner may additionally be adhered to a horizontal surface of the container for further securing the liner thereto.

Classifications:

International (IPC 8-9): B65B51/22 B65B51/32 B65B7/28 B65D41/00

B65D41/02 B65D41/04 B65D41/16 B65D41/18 B65D51/20

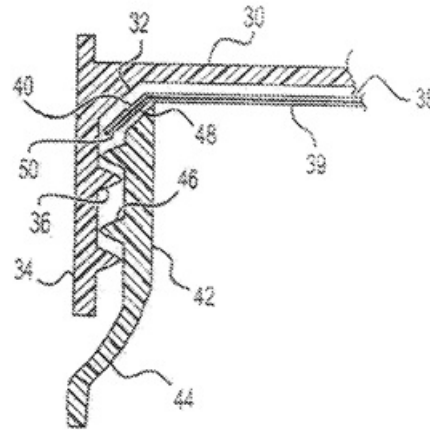
B65D53/08 (Advanced/Invention)

CPC: B65B7/2842 B65D41/02 B65D41/0428 B65D51/20 B65D2251/0015

B65D2251/0096 B65B51/227 B65B51/32 B65D41/045 B65D41/16

B65D41/18

US: 215/316 53/471

**Family:**

Publication number	Publication date	Application number	Application date
EP3000744 A1	20160330	EP20150187472	20150929
US2016016681 AA	20160121	US20140500903	20140929
US10287039 BB	20190514	US20140500903	20140929

Priority:

US20140999237P 20140719 US20140500903 20140929

Probable Assignee: HEYN WILLIAM M

Assignee(s): (std): HEYN WILLIAM M

Inventor(s): (std): HEYN WILLIAM M

Agent(s): CASEY ALAN MICHAEL; HOLT WILLIAM H

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

7) Family number: 57268150 (WO14130170A1)

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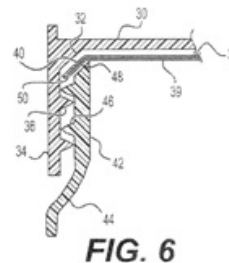
Title: INDUCTION HEAT SEALED CONTAINER CLOSURES

Abstract: Container closures for bottles, cans, tubs, etc. having an internal, sloping or complementary flange on the container which matches with a sloping flange or recess on the closure. A line carried by the closure, in the form of a foil or the like, includes an induction heat activated adhesive or at least the portion thereof facing the sloping or complementary flange or; the container for greatly increasing the burst strength of the container because the adhesion is in shear. Provision is also made for facilitating peeling of the liner to assist the consumer in accessing the container contents. The liner, say, in addition, also be adhered, to a horizontal surface of the container for further securing the liner thereto.

Classifications:

International (IPC 8-9): B65D23/00 B65D41/00 (Advanced/Invention)

CPC: B65D2251/0015 B65D2251/0093 B65D51/20

**FIG. 6****Family:**

Publication number	Publication date	Application number	Application date
CA2902211 AA	20150821	CA20142902211	20140111
WO14130170 A1	20140828	WO2014US11171	20140111

Priority:

US20130768381P 20130222 WO2014US11171 20140111

Probable Assignee: HEYN WILLIAM M

Assignee(s): (std): HEYN WILLIAM M

Inventor(s): (std): HEYN WILLIAM M

Agent(s): RICHES MCKENZIE AND HERBERT LLP; HOLT WILLIAM H

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

8) Family number: 22238462 (US2998178A)

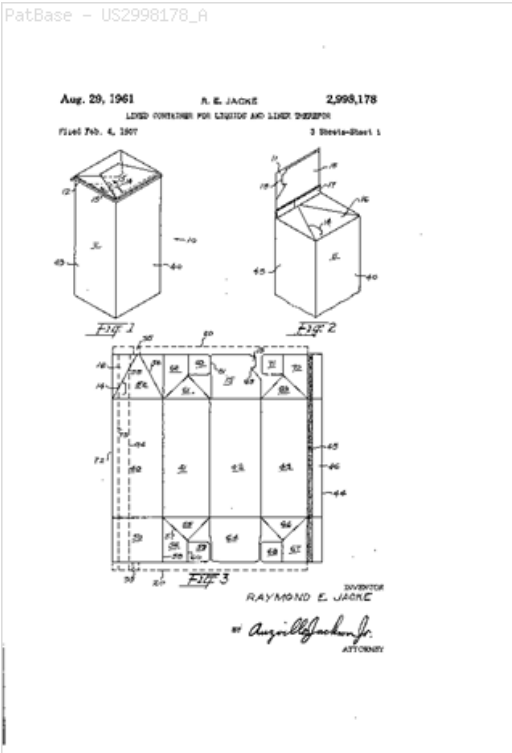
© PatBase

Title: LINED CONTAINER FOR LIQUIDS AND LINER THEREFOR

Abstract: (Claim 1) 1. A lined container adapted for liquids comprising, a comparatively rigid, box-like member having a bottom portion, wall portions and a top portion hinged to said 70 wall portions, said top portion comprising a first top flap hinged to the front wall portion, a second top flap hinged to the rear wall portion and collapsible side top flaps hinged to the side wall portions; and a liner having an inner layer of metallic material, an outer layer of porous 75 material and heat-sealing composition means intermed- a ate said layers, said liner being assembled with its non-metallic surface heat-sealed by means of its heat-sealing composition means to said bottom and wall portions and with its inner metallic surface for contact with the contents of the container and heat-sealed to itself by means of said heat-sealing composition means along bottom, side and top seams extending respectively across said bottom portion, longitudinally along a side wall portion interiorly of said container, and across said top portion, said top seam extending above said first top flap and beneath said second top flap, thereby to permit said container to be opened while maintaining its box-like form.

Classifications:

International (IPC 8-9): B65D5/60 (Advanced/Invention); B65D5/56 (Core/Invention)
International (IPC 1-7): B65D5/60
CPC: B65D5/606
European: B65D5/60B2
US: 229/138 229/155 229/193 229/198.2 229/203 229/5.82 229/5.85



Family:

Publication number	Publication date	Application number	Application date
US2998178 A	19610829	US19570638016	19570204

Priority:

US19570638016 19570204

Probable Assignee: REYNOLDS METALS CO
Assignee(s): (std): REYNOLDS METALS CO
Assignee(s): REYNOLDS METALS COMPANY
Inventor(s): (std): JACKE RAYMOND E

9) Family number: 2909745 (US4719740A)

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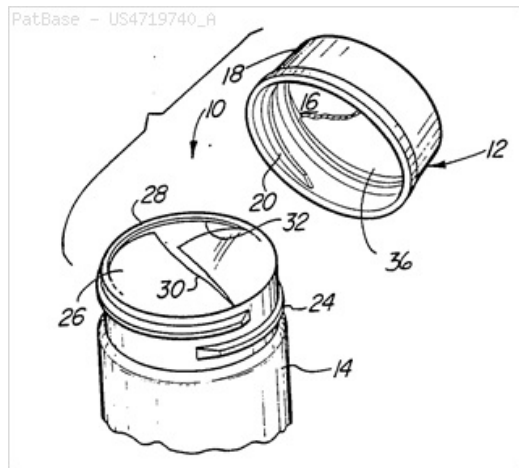
Title: Tamper indicating hermetic seal

Abstract: A method of constructing a closure and applying it to a container to provide a hermetically sealed, tamper-indicating package which can be easily opened without danger of contaminating the container contents by fragmentation of the sealing element. The sealing element is formed as a laminated liner disk haiving an inner foil layer and an outer tough thermoplastic layer. A heat sealing layer allows the liner disk to be hermetically sealed to the container by induction heating after the closure is attached to the container. A frangible opening line is created by melting through the thermoplastic layer and heat sealing layer to the metal foil layer.

Classifications:

International (IPC 8-9): B65B7/01 B65B7/28
B65D51/20 (Advanced/Invention);

B65B7/00 B65B7/28 B65D51/18 (Core/Invention)
International (IPC 1-7): B65B51/10 B65B51/22 B65B61/02 B65B7/28
B65D51/20 B65D53/04 B65D55/02 B67B3/20
CPC: B65B7/01 B65B7/2878 B65D51/20 B65D2251/0015 B65D2251/0093
European: B65B7/01 B65B7/28F4 B65D51/20 L65D251/00Y2D
L65D251/00Y6M
US: 156/69 53/421 53/478 53/487



Family:

Publication number	Publication date	Application number	Application date
AU198770729 A1	19880428	AU19870070729	19870327
NZ219700 A	19890927	NZ19870219700	19870319
US4719740 A	19880119	US19860922126	19861022
ZA8702163 A	19870917	ZA19870002163	19870324

Priority:

US19860922126 19861022

Probable Assignee: SUNBEAM PLASTICS CORP
Assignee(s): (std): SUNBEAM PLASTICS CORP
Inventor(s): (std): GACH P P ; GACH PETER P ; PETER P GACH
Inventor(s): GACH PETER PAUL
Agent(s): GRIFFITH HACK

10) Family number: 58512975 (US2016272379A)

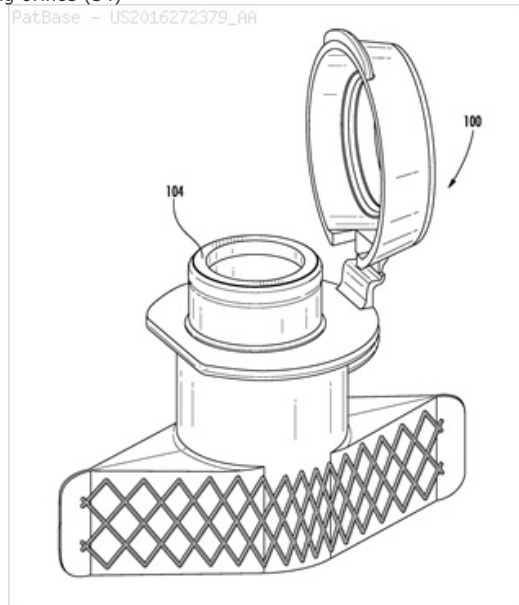
© PatBase

Title: DISPENSING CLOSURE

Abstract: A one-piece dispensing closure (10) for a pouch-like container (13) includes an integrally formed closure body (11), dispensing neck (30), hinged cap (20), a tamper-evident closure system (40) and a latch (62) for maintaining the cap (20) in an open position. The closure body (11) includes a "canoe"-shaped skirt portion (14) with opposing skirt walls (17, 19) which are heat sealed to a film-like pouch (13) and a neck portion (30) having a dispensing orifice (34). The closure body (11) may further include reinforcing ribs (21) extending transversely between the skirt walls (17, 19) to provide support while the pouch is heat sealed to the skirt. A cap (20) is connected to the closure body (11) by a living hinge (26) to allow the user to selectively open and close the container. A tamper-evident tear strip (40) may be integrally formed with the neck portion (30). A locking tab (50) on the cap (20) engages a shoulder (42) on the tear strip (40) to prevent opening of the cap (20) without removing the tear strip (40). The closure (10) may include a liner (102) sealed over the dispensing orifice (34).

Classifications:

International (IPC 8-9): B65D41/46 B65D47/08 B65D51/20 B65D55/06
B65D75/58 (Advanced/Invention)
CPC: B65D51/20 B65D47/0838 B65D75/5883 B65D2101/0023
B65D2251/0025 B65D2251/0093 B65D2251/1008 B65D2101/0038
B65D2251/105
US: 222/153.07



Family:

Publication number	Publication date	Application number	Application date
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CN105636875 A	20160601	CN201480056998	20140814
CN105636875 B	20180918	CN201480056998	20140814
EP3033279 A1	20160622	EP20140836573	20140814
EP3033279 A4	20170405	EP20140836573	20140814
EP3033279 B1	20190313	EP20140836573	20140814
IN201617007766 A	20160708	IN201617007766	20160304
US2016272379 AA	20160922	US20140911746	20140814
US9701451 BB	20170711	US20140911746	20140814
WO15023829 A1	20150219	WO2014US51024	20140814

Priority:

US20130866629P 20130816 US20140989077P 20140506 US20140911746 20140814
WO2014US51024 20140814

Probable Assignee: SILGAN DISPENSING SYSTEMS SLATERSVILLE LLC

Assignee(s): (std): MWV SLATERSVILLE LLC ; SILGAN DISPENSING SYSTEMS SLATERSVILLE LLC ; WESTROCK SLATERSVILLE LLC

Inventor(s): (std): BRANNON PATRICK J ; SKILLIN CLIFFORD

Agent(s): COULSON ELIZABETH EVE; BARLOW JOSEPHS AND HOLMES LTD; HOLMES STEPHEN

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

11) Family number: 3410523 (AU199333828A)

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Title: CONTAINER CLOSURE AND LINER

Abstract: 1. A closure for a container comprising a generally cylindrical body with a closed planar upper end and an open lower end, said body having inwardly directed attachment means on the inside of said body and a removable tamper- indicating ring attached to said open lower end, at least one sealing element disposed inside of said body near said upper end, said element forming a seal against an opening in said container, said element being carried by said body. 4. A closure for a container in accordance with claim 1 wherein: said sealing element is a separate liner and is sealingly adhered to said container to provide said closure with a second tamper-indicating means. A closure for a container in accordance with claim 4 wherein: said liner is a laminated foil with a layer of heat activated resin which allows said liner to be adhered to said container to form a seal after initial placement of said closure on said container.

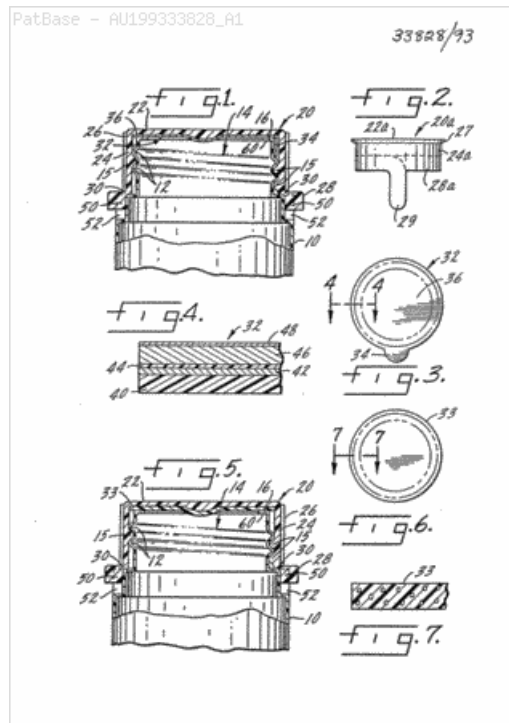
Classifications:

International (IPC 8-9): B65D51/20 B65D53/04

B65D55/08 (Advanced/Invention);

B65D51/18 B65D53/00 B65D55/02 (Core/Invention)

International (IPC 1-7): B65D51/20 B65D53/04 B65D55/08



Family:

Publication number	Publication date	Application number	Application date
AU198942556 A1	19910718	AU19890042556	19891004
AU199333828 A1	19930527	AU19930033828	19930225

Priority:

AU19890042556 19891004 AU19930033828 19930225

Probable Assignee: WALTER E HIDDING

Assignee(s): (std): WALTER E HIDDING

Assignee(s): WALTER HIDDING ; HIDDING WALTER E ; SUPER PAK LTD

Inventor(s): HIDDING WALTER E ; WALTER E HIDDING
Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

12) Family number: 22656011 (US3254811A)

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Title: SYNTHETIC RESIN CONTAINER WITH METALLIC FOIL LINER

Abstract: (Claim 1) A container formed from an oil permeable thermoplastic synthetic resin material, said container comprising an integrally molded hollow body portion having a substantially uniform cross-section throughout its length said body portion having one end open and the other end closed by an integrally formed end panel, a liner of oil impermeable metallic foil bonded in direct contact by heat sealing to the inner surface of said container, said liner covering and forming an oil impermeable barrier for said inner surface and a removable closure fitment mounted on said open end for closing said container.

Classifications:

International (IPC 8-9): B65D25/14 B65D51/20

B65D83/06 (Advanced/Invention);

B65D25/14 B65D51/18 B65D83/06 (Core/Invention)

International (IPC 1-7): B65D5/56

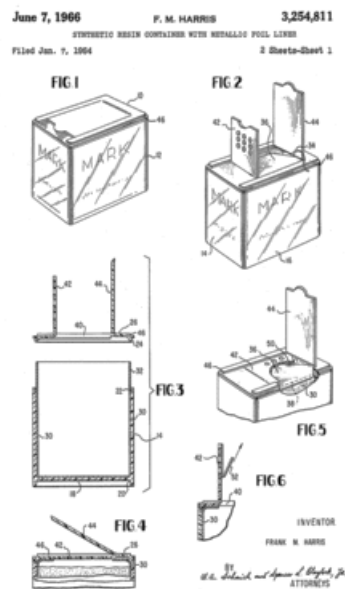
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European: B65D25/14 B65D51/20 B65D83/06 L65D251/00Y2J

L65D251/00Y6M

US: 206/457 222/541.6 222/541.9 222/556 222/565 229/5.82

PatBase - US3254811_A



Family:

Publication number	Publication date	Application number	Application date
US3254811 A	19660607	US19640336284	19640107

Priority:

US19640336284 19640107

Probable Assignee:

OWENS ILLINOIS INC

Assignee(s): (std):

OWENS ILLINOIS INC

Inventor(s): (std):

HARRIS FRANK M

13) Family number: 15024853 (US5712042A)

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Title: SECOND SEAL FOR CLOSURE LINERS

Abstract: Two liners are provided: one for containers with dry contents, one for containers with liquid contents. The liner for dry contents has layers pulp/foil/wax/paper/heat seal, which are laminated and placed into a closure. The closure is mounted on a container neck, after which an induction heating process is carried out. After induction, the pulp and foil layers remain in the closure while the wax layer is absorbed into the paper layer and stays on the container neck along with the heat seal layer. The liner for liquid contents is composed of pulp/foil/polyester/wax/paper/polyester/heat seal. This liner, which is also laminated, is placed into a closure and mounted to a container neck. Following an induction heating process, a pulp/foil/polyester laminate remains on the closure while the paper/wax layer (wherein the wax has been absorbed by the paper) remains on the container neck along with a polyester layer and the heat seal layer. Using the present invention, an excellent secondary seal may be achieved which functions as a true barrier for moisture and gas vapor.

Classifications:

International (IPC 8-9): B32B15/04 B65D53/04 (Advanced/Invention);

B32B15/04 B65D53/00 (Core/Invention)

International (IPC 1-7): B32B15/08 B32B21/04 B32B27/42 B32B29/00

B32B9/04 B65B39/00 B65B41/00 B65B43/00 B65B47/00 B65B51/00

B65D53/00

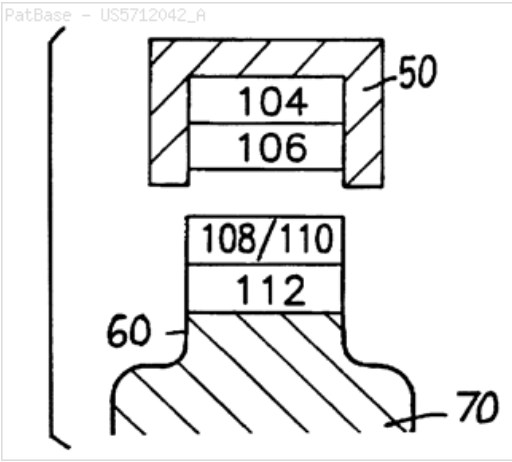
CPC: Y10T428/31681 Y10T428/31688 Y10T428/31714 Y10T428/31801

Y10T428/31804 Y10T428/31989 Y10T428/31993 B32B7/12 B32B15/12

B32B15/20 B32B27/10 B32B27/36 B32B2307/7242 B32B2311/24

B32B2317/12 B32B2367/00 B32B2581/00 B32B15/04 B65D53/04

European: B32B15/04 B65D53/04
US: 215/347 428/458 428/460 428/467 428/484 428/484.1 428/485
428/537.1 428/537.5



Family:

Publication number	Publication date	Application number	Application date
AU199654448 A1	19961107	AU19960054448	19960408
US5712042 A	19980127	US19950422460	19950417
WO9633097 A1	19961024	WO1996US04761	19960408

Priority:

US19950422460 19950417 WO1996US04761 19960408

Probable Assignee: BERRY PLASTICS CORP

Assignee(s): (std): KERR GROUP INC

Assignee(s): SETCO LLC (F K A KERR ACQUISITION SUB I LLC) ; CREDIT SUISSE CAYMAN ISLANDS BRANCH TERM COLLATERAL AGENT AS ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT AS ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SUN COAST IND ; TUBED PRODUCTS LLC ; WELLS FARGO BANK NA ; WELLS FARGO BANK NA COLLATERAL AGENT AS ; SUN COAST IND INC ; TUBED PRODUCTS LLC F K A KERR ACQUISITION SUB II ; SETCO LLC F K A KERR ACQUISITION SUB I LLC ; TUBED PRODUCTS LLC (F K A KERR ACQUISITION SUB II LLC) ; TUBED PRODUCTS LLC F K A KERR ACQUISITION SUB II LLC ; NATIONSBANK NA ; DEUTSCHE BANK TRUST CO ; SAFFRON ACQUISITION CORP ; PLASTICS FUNDING CORP ; SETCO LLC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS TERM COLLAT ; GRAFCO IND ; LANDIS PLASTICS LLC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH TERM COLLATERA ; GRAFCO IND PARTNERSHIP LTD ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT A ; BANK OF AMERICA NA ; BANK OF AMERICA NA ABL COLLATERAL AGENT AS ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BERRY PLASTICS CORP ; BERRY STERLING CORP ; CAPTIVE PLASTICS INC ; CREDIT SUISSE ADMINISTRATIVE AGENT AS ; CREDIT SUISSE AS ADMINISTRATIVE AGENT

Inventor(s): (std): CAIN MICHAEL R ; MICHAEL R CAIN

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 MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN

14) Family number: 3833758 (GB1376749A)

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Title: CONTAINER CLOSURE

Abstract: 1376749 Container closures UNITED GLASS Ltd 22 Dec 1972 [22 Dec 1971] 59629/71 Headings B8T and B8C A flexible plastics snap-on closure cap has a disc-like top portion 2 and a dependent peripheral skirt 4 with an inwardly turned annular bead 6, which engages below an outwardly facing bead 12 of the neck 8 of a container. The upwardly directed sealing surface of the container 10 is flat, and clamped between the surface 10 and the cap is a disc liner 14, of greater diameter than sealing surface 10 so that the peripheral portion 16 of the liner 14 overhangs. The liner 14, which may be a thermoplastic adhesivecoated aluminium foil, is removably adhered to the sealing surface 10 by an induction heatsealing process as described in Specification 1,135,943. In a modification, Fig. 2 (not shown), the upper portion of bead 12 is cut away, leaving a narrow sealing surface (22) to which the liner 14 is adhered. In operation, the snap-on closure is removed, and the liner removed by grasping the overhang 16 and removing the liner.

Classifications:

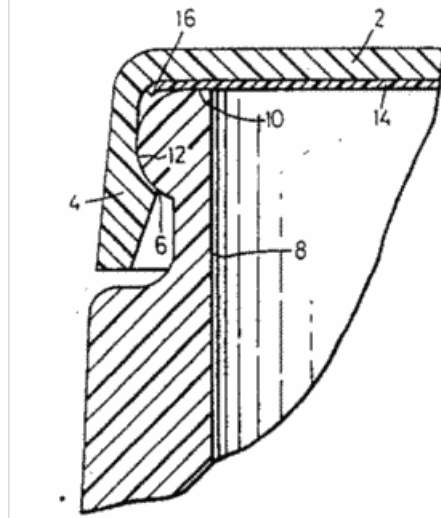
International (IPC 8-9): B65D41/18 (Advanced/Invention); B65D41/02 (Core/Invention)

International (IPC 1-7): B65D41/18 B65D51/18

CPC: B65D41/18

European: B65D41/18

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
GB1376749 A	19741211	GB19710059629	19721222

Priority:

GB19710059629 19721222

Probable Assignee:

UNITED GLASS LTD

Assignee(s): (std):

UNITED GLASS LTD

15) Family number: 67084010 (WO17161410A1)

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Title: ANTI-TAMPER AND ANTI-COUNTERFEIT CLOSURE FOR A CONTAINER

Abstract: The present invention is a tamper evident closure assembly for a container that has been pre-filled with a product. The assembly includes a body portion and a cap portion. The container is manufactured to have a necked portion that defines the opening of the container, and the sidewall of the necked portion is manufactured with a specific shape, and the body portion of the assembly is adapted to be attached onto that specific shape and be non-removable from the container, once it has been attached, and the body portion includes a first portion that is adapted to sit internally with respect to the necked portion of the container, and a second portion that is adapted to sit externally with respect to the necked portion of the container, and act like a collar around it, and the closure includes at least one feature that permanently indicates any effort to remove the closure from the container.

Classifications:

International (IPC 8-9): B65D41/34 B65D41/40 B65D41/48 B65D41/58 B65D41/62 B65D51/18 B65D55/02 (Advanced/Invention)

CPC: B65D5/749 B65D47/122 B65D2101/00 B65D2203/10 B65D47/123

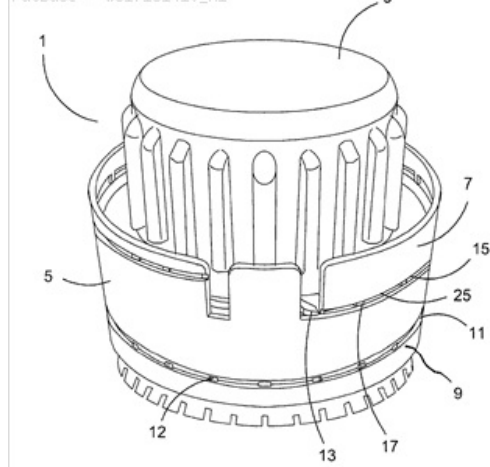


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
WO17161410 A1	20170928	WO2017AU00072	20170324

Priority:

AU20160901117 20160324

AU20160902967 20160728

AU20160903291 20160819

AU20160904041 20161005

AU20160904112 20161011

AU20170900073 20170112

AU20170900568 20170221

Probable Assignee: INTRINSIC MAN PTY LTD

Assignee(s): (std): INTRINSIC MAN PTY LTD
Assignee(s): INTRINSIC MANAGEMENT PTY LTD
Inventor(s): (std): SWEENEY MICHAEL ANDREW THOMAS
Agent(s): ANDERSON STEPHEN
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 DJ 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 KH KM KN KP KR KW 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

16) Family number: 22735282 (US3183802A)

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Title: CONTAINER AND METHOD AND APPARATUS FOR MAKING THE SAME OR THE LIKE

Abstract: (Claim 1) 1. A method for inaking a container body or the like comprising the steps of helically winding a strip of linin- material whereby adjacent edges of adjacent con- volutions thereof overlap each other, heat sealing together only said overlapping edges of said lining materl by only heating a portion of said lining material whereby no wicking action can take place at the spiral seam of said lining material, helically winding a strip of con- tainer material on to said helically wound strip of lining rmaterial, and helically winding a strip of wrapping material on to said helically wound strip of container material.

Classifications:

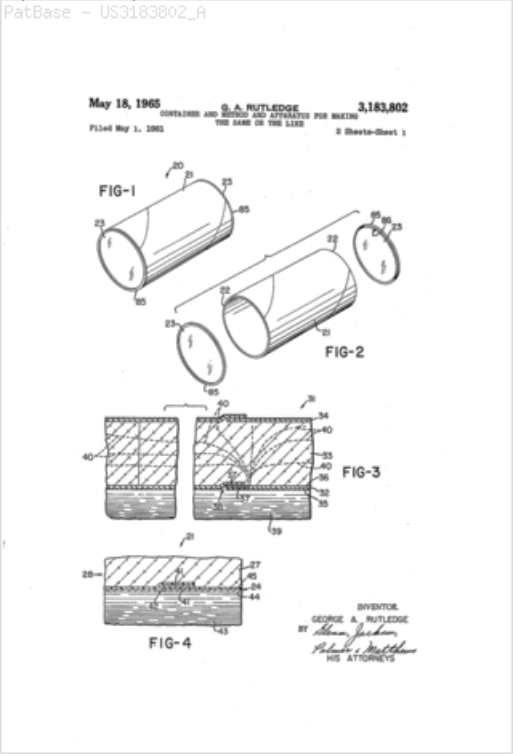
International (IPC 8-9): B31C3/04 (Advanced/Invention);

B31C3/00 (Core/Invention)

CPC: B31C3/04

European: B31C3/04

US: 229/198.2 229/4.5 229/5.82 493/274 493/276 493/292 493/294 493/297 493/301



Family:

Publication number	Publication date	Application number	Application date
US3183802 A	19650518	US19610106629	19610501

Priority:

US19610106629 19610501

Probable Assignee: REYNOLDS METALS CO
Assignee(s): (std): REYNOLDS METALS CO
Assignee(s): REYNOLDS METALS COMPANY
Inventor(s): (std): RUTLEDGE GEORGE A

17) Family number: 22569033 (US3147902A)

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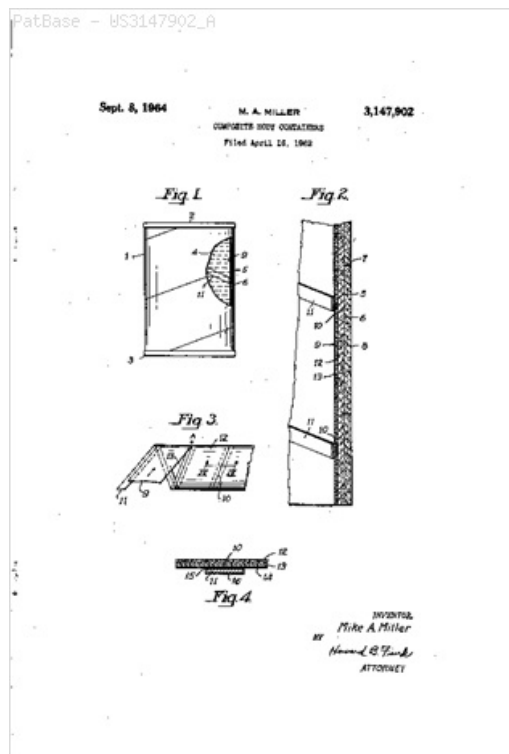
Title: COMPOSITE BODY CONTAINERS

Abstract: 984,064. Non-metallic tubes. ALUMINUM CO. OF AMERICA. March 28, 1963 [April 16, 1962], No. 12280/63. Heading F2P. [Also in Divisions B5 and B8] A tubular-walled container is formed of two layers 5, 6 of helically wound kraft paper, chipboard or cardboard adhered together and a lining formed by a laminate of helically wound paper 12 and metal foil 13, the lining being adhered to the layer 6 and sealed at its joint by a metal foil tape 11. The exposed face of the foil 13 has a coating of thermoplastic resin, e.g. vinyl resin and wax. The tape 11 is similarly coated on its exposed side, and, for joining it to the coated foil 13 has on its opposite side a coating of a plastics material heat-sealable at low temperature, e.g. a polyamide resin or plasticized vinyl copolymer. Metal end caps are secured to the container body wall.

Classifications:

International (IPC 8-9): B65D3/00 B65D3/22 (Advanced/Invention);

B65D3/00 (Core/Invention)
International (ipc 1-7): B65D3/04 B65D5/54 B65D8/04
CPC: B65D3/00 B65D3/22
European: B65D3/00
US: 229/4.5 229/5.82



Family:

Publication number	Publication date	Application number	Application date
GB984064 A	19650224	GB19630012280	19630328
US3147902 A	19640908	US19620187712	19620416

Priority:

US19620187712 19620416

Probable Assignee:

ALUMINUM CO OF AMERICA

Assignee(s): (std):

ALUMINUM CO OF AMERICA

Assignee(s):

ALUMINUM COMPANY OF AMERICA

Inventor(s): (std):

ANTHONY MILLER MIKE

Inventor(s):

MILLER MIKE ANTHONY

18) Family number: 28177307 (US2002014057A)

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Title: VENTED, GROOVED BACK, HEAT INDUCTION FOIL

Abstract: There is provided a cap liner including a fluid impermeable layer for venting gas to and from the container and an adhering device for adhering the impermeable layer to a rim of a container and a channel extending therethrough for venting gas therethrough. Also provided by the present invention is a method of sealing an opening of a container by affixing a melttable layer of a sealing member to a container rim and venting the container through a vent patch, melttable layer, a foil layer, and a fluid impermeable layer having pathways thereon.

Classifications:

International (ipc 8-9): B65D53/04 (Advanced/Invention);

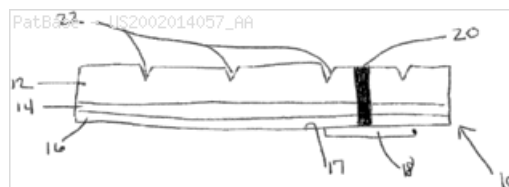
B65D53/00 (Core/Invention)

International (ipc 1-7): B01D50/00 B65D53/00

CPC: Y10T428/2804 Y10T428/2826 B65D53/04 Y10T428/31522

European: B65D53/04

US: 215/230 215/232 215/247 215/250 215/261 428/344 428/349 428/416 55/385.4 55/487



Family:

Publication number	Publication date	Application number	Application date
US2002014057 AA	20020207	US20010865656	20010525
US6602309 BB	20030805	US20010865656	20010525

Priority:

US20000208076P 20000526 US20010865656 20010525

Probable Assignee:

PERFORMANCE SYSTEMATIX INC

Assignee(s): (std):

GROVER JOHN W ; PERFORMANCE SYSTEMATIX INC ; VIZULIS KARLIS

Inventor(s): (std):

GROVER JOHN W ; VIZULIS KARLIS

Title: METHOD OF MAKING LINED CONTAINERS

Abstract: 1,023,034. Lined containers; packaging-machines. REYNOLDS METALS CO. Oct. 16, 1962, No. 39183/62. Headings B8C and B8P. [Also in Division B6] A lined container for liquids comprises a stiff box with wall portions 40, 41, 42 and 43 and top and bottom portions formed by flaps hinged thereto, the two opposite flaps 45, 47 on the front and rear wall portions having a combined length less than the distance between said front and rear walls, and a liner having a non-metallic outer surface heat-sealed to the bottom, top and wall portions and an inner metallic surface 16 heat-sealed to itself along bottom, side and top seams, the top seam 60 being disposed above and between said top flaps 45, 47 and beneath each of the other side flaps. The liner is formed of the inner metallic layer, an outer adhesive-pervious layer and an intermediate layer of adhesive. The container is formed by feeding the liner material from a roll 116 to a machine for perforating parts of the metal foil layer to aid sealing and the liner is then fed to a folding and sealing machine 158 to form a continuous sleeve which is cut into the required length by a cutter 170 and then placed into stacks 118. The liner sleeves 118 and flat carton blanks 174 are fed together on to belts 180, 182 with the liner on wall portions 42, 41 before the wall portions 40, 43 are folded over and glued by machine 122. The liner and carton are then passed to heat sealing means to bond the liner to the carton. Since it is desirable to pull the pleats 30, 32 (Fig. 12, not shown) apart to relieve stresses which might rupture the liner the carton is flipped before passing to the second heat sealing machine by an apparatus such as that shown in Fig. 19. The leading edge 302 of the carton abuts a plate 312 while the rollers 304, 310 continue to push the carton until the corner 324 is picked up by rollers 308, 310 for feeding to the second sealing means. The cooled assembled container is then fed to machine 140 where the cartons are opened up and sealed at one end preparatory to filling in the zone 334. The ends are closed by folding in flaps 45, 47 together with the liner thus forcing the flaps 13, 14 horizontal and forming an elongated fin upstanding from the faces of the flaps. A heat sealing means is passed along the fin (Fig. 28, not shown) to seal the two opposing faces and then folded longitudinally and re-sealed to form a double seam. The two flaps 13, 14 are folded over each other and are held in place either by an overwrap or a simple adhesive means before passing to conveyer 142 for storage.

Classifications:**International (IPC 8-9):** B29C65/36 B31B7/00 B65B51/22

B65D5/60 (Advanced/Invention);

B29C65/34 B31B7/00 B65B51/22 B65D5/56 (Core/Invention)

International (IPC 1-7): B31B7/26 B65B51/22**CPC:** B29C65/3668 B29C65/368 B29C66/1122 B29C65/3644 B29C66/43

B29L2031/7162 B65B51/227 B65D5/606 B29C66/43121 B29C66/4322

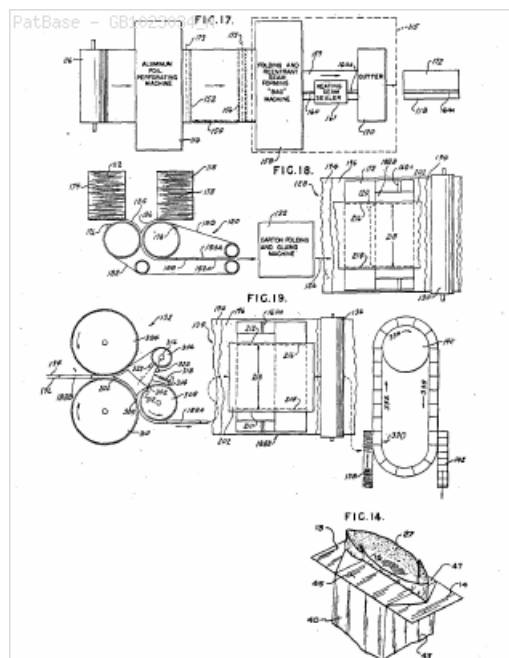
B29C66/4326 B29C66/83413 B29C66/836 B29C66/8322 B29C65/4835

B29C66/73112 B29C66/8161 B31B2105/00 B31B2120/408

B29C66/72321 B29C66/72328 B29C66/135 B29C66/1352

European: B29C65/36 B29C66/1122 B29C66/43 B31B7/00 B65B51/22D

B65D5/60B2 L29L31/7162 L31B217/00C2

**Family:**

Publication number	Publication date	Application number	Application date
GB1023034 A	19660316	GB19620039183	19621016

Priority:

GB19620039183 19621016

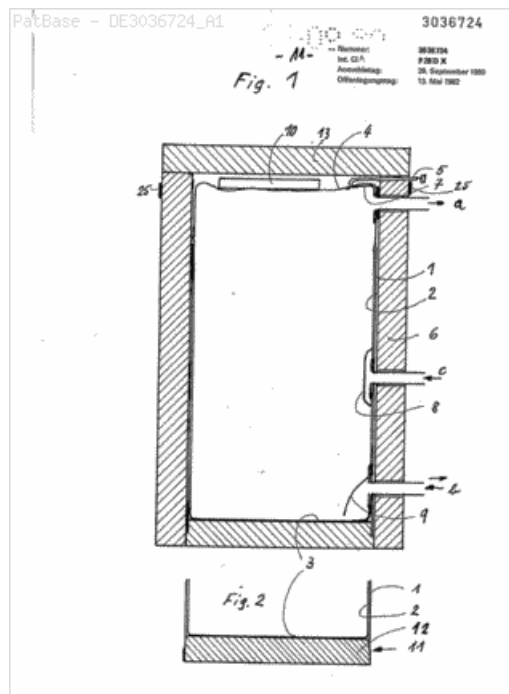
Probable Assignee: REYNOLDS METALS CO**Assignee(s):** (std): REYNOLDS METALS CO**Assignee(s):** REYNOLDS METALS COMPANY**Inventor(s):** (std): JACKIE RAYMOND EDWARD ; STALEY JOHN**Title:** UNPRESSURISED LIQUID HEAT RESERVOIR HAS INTERNAL FOIL LINER - WITH SEALED BASE AND EXTERNAL SUPPORTING AND INSULATING CONTAINER

Abstract: An unpressurized storage heater contains water (or other liq.) in a cylindrical plastics foil bag (2) supported by an external vessel (6). The bag is closed except for inlets and outlets and has no communication with atmos. The base (3) may be of a separate component, sealed, bonded or vulcanised to the cylindrical foil (2) or may be made from this foil by closing it by sealing, gluing, vulcanizing, etc. Used as a store for heat, without the need to use a pressurized metal container. The vessel is temp.-resistant and corrosion-resistant up to 95 deg.C. The support vessel (6) may also act as the insulation.

Classifications:**International (IPC 8-9):** F24H9/12 F28D20/00 (Advanced/Invention);

F24H9/12 F28D20/00 (Core/Invention)

International (IPC 1-7): F28DX**CPC:** F24H9/124 F28D20/0034 Y02E60/142**European:** F24H9/12C2 F28D20/00C Y02E60/14B



Family:

Publication number	Publication date	Application number	Application date
DE3036724 A1	19820513	DE19803036724	19800929

Priority:

DE19803036724 19800929

Probable Assignee: MOEHLENBECK KLAUS JUERGEN ING

Assignee(s): (std): MOEHLENBECK KLAUS JUERGEN ING

Inventor(s): (std): MOEHLENBECK KLAUS JUERGEN ING

21) Family number: 977974 (US3780187A)

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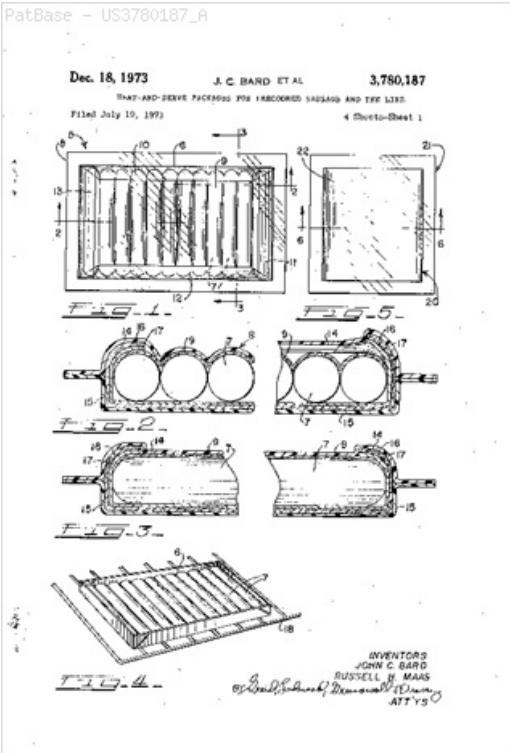
Title: HEAT-AND-SERVE PACKAGES FOR PRECOOKED SAUSAGE AND THE LIKE

Abstract: ABSTRACT OF THE DISCLOSURE Heat-and-serve packages of precooked sausage and the like include a disposable, heatable tray formed with foldable sides from sheet material capable of retaining melted fat, with links or patties of precooked or prefried sausage or the like laid flatwise on the bottom of the tray. The sides of the tray are folded downwardly and inwardly over the margins of the precooked sausage links or patties and the assembly is enclosed in a disposable film envelope, being preferably evacuated and hermetically sealed. In use, the outer film or envelope is removed, the sides of the tray are folded up and the tray is inserted in an oven, or placed on a hot plate whereby the sausage contents are heated and acquire the characteristic flavor of sausage fried or cooked in the usual manner. Single or multiple trays may be sealed in an envelope formed of barrier film. A single tray may be folded and multiple trays may be separable into smaller trays. While the invention is particularly useful for precooked sausage, other heat-and-serve items that exude or release fat or liquid on heating may constitute the contents. This application is a continuation-in-part of our prior copending application Ser. No. 775,000, filed Nov. 12, 1968, now Pat. No. 3,619,215. In preparing regular sausage and hamburger patties or links for the table, the housewife, normally heats the meat item in a frying pan during which a considerable amount of fat or greasy liquid, and/or cooking residue accumulates in the pan. This results in a greasy utensil that has to be washed after the grease or other residue has been disposed of in some way. During frying or cooking, sausage produces a characteristic aroma which is highly desirable in itself but apparently required in order to develop the full characteristic flavor of the sausage. Thus, when sausage is cooked in a sealed container, its flavor does not become fully developed. The object of the present invention, generally stated, is that provision of generally flat, heat-and-serve packages of precooked or prefried sausage links or patties or the like, which include a disposable tray having foldable sides formed from sheet material capable of being heated and retaining melted fat, with the sausage links or patties or other prefried products being laid flatwise on the bottom of the tray, the sides being folded down over the margins of the contents, and the assembly being enclosed within impermeable film and then evacuated and hermetically sealed. Another object of the invention is the provision of heat-and-serve packages of the class described wherein the outer barrier film envelope fits the trays of precooked or prefried sausage or other similar product sufficiently snugly and tightly so that fat or grease does not migrate to the exteriors of the trays. Another object of the invention is the provision of packages of precooked sausage and the like of the class and character described wherein the trays are formed of paper broad lined or coated with metal foil and/or other heat and grease resistant material such as films or coatings of polycarbonate resin (General Electric Co., Lexan 144), trimethylpentene (TPX of Imperial Chemical Industries, Ltd.) with a continuous grease retaining dike embossed in the bottom of the tray adjacent the margins, thereby making it unnecessary for the corner seams to be fluid tight with respect to hot grease. Certain other objects of the invention will in part be obvious, and will in part appear hereinafter. For a more complete understanding of the nature and scope of the invention, reference may now be had to the following detailed description of several presently preferred embodiments thereof in conjunction with the accompanying drawings wherein: Fig. 1 is a top plan view of what may be considered as the basic form or embodiment of the invention where-, in the precooked contents are sausage links; Fig. 2 is a magnified sectional view taken on line 2-2 of Fig. 1 with the center portion broken away; Fig. 3 is a magnified fragmentary sectional view taken on line 3-3 of Fig. 1; Fig. 4 is a top perspective view showing the disposable tray of the package of Fig. 1 removed from its plastic film envelope and with its sides turned up, the parchment covering sheet removed from the sausage and placed on an oven shelf or grill; Fig. 5 is a plan view of a second embodiment of the invention wherein a single flat tray of precooked link sausage is folded on itself prior to being packaged in an outer film envelope; Fig. 6 is a magnified sectional view taken on line 6-6 of Fig. 5 with the center portion broken away; Fig. 7 is a plan view of a third embodiment of the invention wherein two flat trays filled with prefried link sausage are placed together and sealed in an outer film envelope; Fig. 8 is a

magnified sectional view taken on line 8--of Fig. 7 with the center portion broken away; Fig. 9 is a top plan view of an empty tray formed of foil lined paper board in the opened condition with the foldable sides turned up; Fig. 10 is a fragmentary sectional view taken on line 10-10 of Fig. 9; Fig. 11 is a top plan view of a cut and scored tray blank which may be used in connection with still another embodiment of the invention; Fig. 12 is a perspective view of a blank of Fig. 11 in the partially folded condition; Fig. 13 is a perspective view showing the fully erected tray formed from the blank of FIGS. 11 and 12 filled with links of prefried sausage; Fig. 14 is a perspective view showing the filled tray of Fig. 13 separated into two halves; and Fig. 15 is a top plan view of a package corresponding to Fig. 1 but wherein the contents are in the form of precooked sausage patties. Referring to FIGS. 1--4, a heat-and-serve package of prefried sausage is indicated at 5 comprising a heatable disposable tray 6 having links of sausage 7-7 laid flatwise therein and hermetically sealed in an evacuated envelope 8 formed of plastic film having suitable barrier properties with respect to air, moisture and fat penetration. The disposable tray 6 may be formed of paperboard that is lined with metal foil (e.g. aluminum foil) or it may be formed of sufficiently heavy aluminum sheet, e.g. 0.004 inch thickness. Instead of using metal foil, heat and grease resistant plastic coatings or laminates of known type may be used, such as polycarbonate or trimethylpentene polymers. Such heat and grease resistant sheet materials are commercially available at relatively low cost, and trays may be readily formed therefrom in known manner using known equipment so as to have foldable sides as indicated at 10, 11, 12 and 13 with interconnecting folding corners. The sausage links 7-7 are laid side-by-side on the bottom of the tray 6 and a grease-resistant covering sheet 9 formed of vegetable parchment or the like is laid over the links. The sides 10 and 12 are then folded down over the ends of the links after which the sides 11 and 13 are folded down as shown. The filled tray 6 with the sides turned down as described is hermetically sealed in an envelope 8 formed of impermeable film after the same has been evacuated. The envelope 8 may initially be in the form of a bag of suitable size or the envelope may be formed in known manner from two webs of the film having the filled tray 6 inserted therebetween with the films being suitably sealed on all four sides around the tray and the resulting envelope cut out from the webs. Packaging machines have been developed and are currently commercially available capable of high speed evacuation and sealing of plastic envelope type bags, as well as forming envelopes from opposing sheets of film and evacuating and sealing the same. Various commercial films are available having suitable barrier properties with respect to air, moisture and fat which may be used for forming the envelope 8 including: saran, polyvinyl chloride, Mylar (polyester film), polycarbonate, Pliofilm, and saran coated cellophane. Such films may be used alone or in the form of laminates. A preferred film material from which the envelope 8 may be formed is a laminate comprising one or more plies of saran. Preferably the envelope 8 is formed from the saran film or laminate while it is in the supercooled amorphous condition wherein it is highly formable and the opposite sides of the envelope 8 conform in close detail to the opposite sides of the filled tray. Pat. 3,083,106 discloses apparatus and method whereby evacuated hermetically sealed packages are formed from opposing laminated films of saran in the supercooled amorphous condition. In Fig. 2 the upper and lower sheets of the plastic film envelope 8 are indicated at 14 and 15 with the tray 6 being shown formed of sheet material comprising a layer of paper board 16 lined on the interior with aluminum foil 17. When the envelope 8 is formed from film having the formability of supercooled amorphous saran and the packages are evacuated before being hermetically sealed in known manner as taught for example in Pat. 3,083,106, the envelope 8 will so snugly fit the margins of the sausage filled tray 6 that fat or exudate from the sausage will not wick or migrate between the exterior of the tray 6 and the interior of the envelope 8. In use, the package 5 of FIGS. 1-4 is opened by cutting or otherwise removing the disposable envelope 8, the tray 6 is removed therefrom and sides 10, 11, 12 and 13 thereof are turned up. The removed tray with its sides turned up may be placed on a wire shelf 18 of a pre-warmed oven as illustrated in Fig. 4. Preferably, the sausage links 7 are prefried to a net weight which ranges from about 50 to 80 percent of the weight of the uncooked or fresh sausage without appreciably shrinking the individual links. By having the sausage prefried there is substantially less residual fat to render during heating and for the tray 6 to hold and the sausage may be prepared in a much shorter time. For example, the final weight of fully-cooked, ready-to-eat sausage runs from about 40 to 70 percent of the weight of the fresh or uncooked sausage. For example, a tray of prefried sausage may be heated adequate in 10 minutes in an oven preheated to 4000 F. and the amount of fat that will render will be about 10 to 20 percent of the quantity that renders from uncooked sausage. If the tray of prefried sausage is placed 3 inches under an oven broiler element it will be ready to eat in about 180 seconds. During heating in an oven or on a hot plate, the prefried sausage in the disposable tray 6 will give off the usual aroma or smell and upon eating, the sausage will have the full flavor that characterizes fried sausage. It has been found that if prefried sausage is cooked or heated in completely sealed containers or envelopes the flavor does not become fully developed. Any tendency for fat or grease from the sausage to wick over the folded -down sides of the tray 6 and migrate between the film and the outer surface of the tray is minimized by laying over the sausage in the tray before the sides are folded down, the covering piece of grease absorbent paper (e.g. vegetable parchment) 9 which is removed before the sausage is heated. Foil-lined or metallized trays with foldable sides such as tray 6 are available commercially which will readily withstand heating to 4000 F. in an oven, which is high enough to readily heat the prefried or precooked sausage. Such material will also withstand heating on a hot plate for short periods of time, but long enough to accomplish heating of the prefried sausage in this manner. When the tray is formed of sheet aluminum (e.g. 0.004 inch thickness) it may be heated directly over a gas burner or other flame as well as in the oven or on an electric hot plate. Referring to FIGS. 5 and 6, a second embodiment of the invention is shown wherein a flat tray of precooked linked sausage such as tray 6 in Fig. 1 is folded over on itself and hermetically sealed in an outer film envelope. In FIGS. 5 and 6, such a folded tray filled with precooked sausage is indicated at 20 and the outer film envelope is indicated at 21. The construction of the tray 20, the filling of the same with links of sausage 29, covering with a sheet of parchment 19 and the folding down of the sides may, of course, follow that for tray 6 in Fig. 1. Then such a filled tray is folded over on itself so that the two ends over lay themselves. The folded filled tray is then inserted in the plastic film bag or envelope 21 which may be formed, filled, evacuated and sealed as described in connection with Fig. 1 for the envelope 8. As will be seen from Fig. 6, the fold is on the left hand side or margin of the package as viewed in FIGS. 5 and 6 and is indicated at 22 while the overlying ends are on the right hand margin and indicated at 23 and 24 in Fig. 6. When the outer envelope 21 is formed from supercooled saran in the amorphous condition, or from a laminate containing supercooled saran, and the packages evacuated and hermetically sealed around the margins, the snugness of the envelope to the folded tray is such that the opposing folded margins such as the one designated at 25 along the right hand vertical edge, will be so tightly held together that wicking or migration of grease or fat onto the outer surfaces of the tray 20 will be prevented even when the pieces of parchment 19 are omitted. The package of FIGS. 5 and 6 has the advantage that its length is reduced by half the length of the package of FIGS. 1-4, thereby reducing the film requirement for the same package capacity. In addition, the film in the envelope is substantially completely supported in direct contact with the tray thereby offering maximum protection against accidental puncturing in handling. Furthermore, if the film is punctured or torn, the package contents are not directly exposed. Referring to FIGS. 7 and 8, the embodiment shown therein is formed of two filled trays 30 and 31 laid or superposed face to face (i.e. sausage-to-sausage) and hermetically sealed in an outer envelope plastic film 32. The individual trays 30 and 31 may correspond to the tray 6 in FIGS. 1-4. It will be understood that if it is desired to have maximum exposure of the product then the positions of the filler trays 30 and 31 may be reversed and 7m they may be put back to back and hermetically sealed in the envelope 32. Alternately, the trays 30 and 31 may be superposed so that the sausage is exposed through the film only on one side of the completed package. When the envelope 32 is formed of supercooled saran, or a laminate containing supercooled saran, it is readily practical to so tightly and snugly compress the margins of the opposed filled trays 30 and 31 that wicking or migrating of the fat or grease from the sausage contents to the exteriors of the trays is prevented. Referring to FIGS. 9 and 10, an empty tray 35 is shown therein with the sides turned up. The tray 35 is formed of foil lined paperboard and is of the type that may be used as tray 6 in FIGS. 1-4, for example. The sides of the tray 35 are designated at 36, 37, 38 and 40 with the bottom of the tray being designated at 41. In Fig. the paperboard layer is indicated at 42 and the aluminum foil liner is designated at 43. The bottom 41 of the tray is provided with a longitudinal groove 44 having branch depressions or grooves 45-45 extending at an angle therefrom. The interconnected depressions or grooves 44 and 45 provide channels for melted fat to be distributed in. Inwardly, from the margins of the bottom 41, it is provided with a grease retaining dike formed by upward scoring or embossing the bottom to provide side and end portions 46, 47, 48 and 50 interconnected by four corner portions 51-51. The resulting grease-retaining dike prevents hot grease or fat from reaching the corners of the tray and thereby eliminates the necessity of the folding corners of the tray being fluid-tight so as to retain the melted grease. Referring to Fig. 11, a pre-cut and scored tray blank is indicated generally at 55 which may be formed of any one of the heatable grease resistant sheet materials mentioned above. This tray blank 55 may be formed on a quantity production basis by machines of known type so as to have score lines along the margins and in the corners permitting the tray blank to be folded into separate containers as indicated in Fig. 12. In order to facilitate the separation of the tray blank 55 by the customer into two separate trays, two V-cuts 56 and 57 are die cut on opposite ends of a line of perforations 58. Whereas, the other score lines indicated in Fig. 11 do not penetrate the sheet material, the line of perforations 58 does involve perforating the sheet material in known manner. In use, the tray blanks 55 are folded along the score lines so as to form pockets as indicated in Fig. 12 and

then the links of sausage or other items are laid in the pockets as indicated in Fig. 13. A piece of grease resistant paper, e.g. vegetable parchment, is then laid over the sausage in one of the halves and the sides and ends of the respective pockets are folded down over the sausage thereby forming a closed package which is hinged at the line of perforations 58. This packet is then enclosed in an outer envelope or bag of film in the manner described above in connection with the embodiments shown in FIGS. 1-8. In use, the consumer opens the outer envelope and removes the inner folded packet and then separates one side or half thereof from the other in the manner illustrated in Fig.

Classifications:
International (ipc 8-9): B65D75/30 B65D81/00 (Advanced/Invention); B65D75/28 B65D81/00 (Core/Invention)
International (ipc 1-7): B65B25/06 B65D81/34
CPC: B65D75/30 B65D81/00
European: B65D75/30 B65D81/00
US: 206/216 206/484 206/499 229/120.011 229/120.09 229/146 229/87.11 426/113 426/119 426/124 426/129 991/740



Family:

Publication number	Publication date	Application number	Application date
CA944724 A1	19740402	CA19690063554	19690929
US3619215 A	19711109	US19680775000	19681112
US3780187 A	19731218	US19710163667	19710719

Priority:

US19680775000 19681112 US19710163667 19710719

Probable Assignee: MAYER AND CO INC O

Assignee(s): (std): MAYER AND CO INC ; MAYER AND CO INC O

Assignee(s): MAYER OSCAR AND CO ; MAYER OSCAR AND CO INC ; MAYER OSCAR AND CO INC US ; OSCAR MAYER AND CO INC ; BARD JOHN C ; MAAS RUSSELL H

Inventor(s): (std): BARD J ; MAAS R ; MAAS RUSSELL H ; BARD JOHN C

Inventor(s): MAAS R US ; RUSSELL H MAAS ; BARD J US ; JOHN C BARD

22) Family number: 12520360 (US5513781A)

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Title: Perforated inner seal and liner assembly for closures and method of making same

Abstract: A sifter and liner assembly and method of making the assembly which is configured for use with a container. The sifter is dimensioned to span the mouth of the container and has an upper surface, a lower surface and a least one aperture. The liner is dimensioned to cover at least the aperture of the sifter and includes an integral pull tab. A layer of permanent adhesive material is located on a peripheral edge of the lower surface of the sifter to secure the sifter to the lip of the container. A layer of impermanent adhesive material is located between the sifter and the liner for removably securing the liner to the sifter. The sifter and liner are retained together within the closure cap. The sifter, liner and closure cap form a package which can be stored, transported and applied to the container as a unit.

Classifications:

International (ipc 8-9): B65D47/18 B65D51/20 B65D83/06 (Advanced/Invention); B65D77/20 (Advanced/Non-invention); B65D47/06 B65D51/18 B65D83/06 (Core/Invention); B65D77/10 (Core/Non-invention)
International (ipc 1-7): B65D53/04
CPC: B65D47/185 B65D51/20 B65D83/06 B65D2251/0015 B65D2251/0062 B65D2251/0087 B65D2577/2091
European: B65D47/18A B65D51/20 B65D83/06 L65D251/00Y2D L65D251/00Y4M L65D251/00Y6J L65D577/20P2
US: 215/232 215/347 222/565

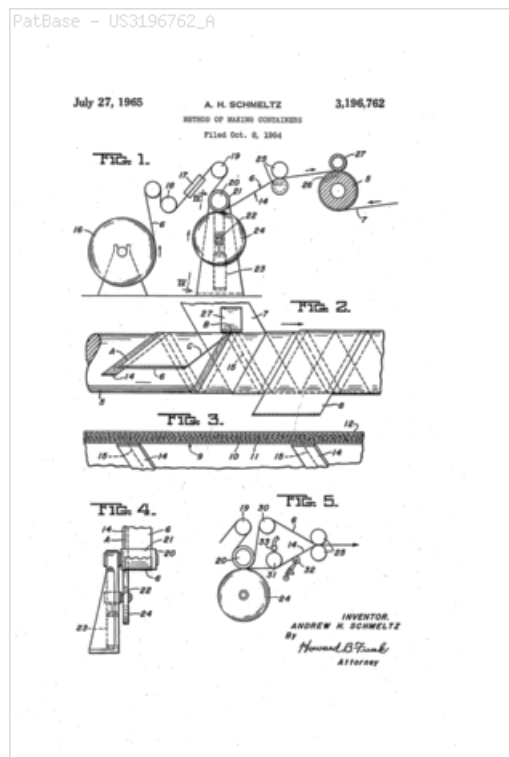
Publication number	Publication date	Application number	Application date
US5513781 A	19960507	US19940279190	19940722

US19940279190 19940722

Probable Assignee:	PHOENIX CLOSURES INC
Assignee(s): (std):	PHOENIX CLOSURES INC
Inventor(s): (std):	ULLRICH JEFFREY F ; MILLER ALBERT R

Abstract: (Claim 1) 1. In a method of producing spirally wound tubing from which container bodies are made, wherein a lining strip having a metal foil face is spirally wound on a mandrel under tension to form a continuous tubular liner with said foil defining the inner surface of said liner, the improvement in sealing and seepage-proofing the seam between successive convolutions of said tubular liner which comprises: (a) providing sealing tape entirely of metal foil having a width materially less than half the width of said lining strip and a thickness such that said tape is not capable as a single web of sustaining the winding tension at said mandrel, and having a heat sealable coating on one side thereof; (fa) progressively heat sealing said tape along the foil face of said lining strip in projecting relation to one edge thereof at a point spaced from said mandrel, whereby the superior strength of said lining strip offsets the inherent weakness of said tape and delivers the tape intact onto said mandrel; (c) the tape bearing edge of said liner strip being the trailing edge thereof as engaged upon the mandrel thereby causing the projecting portion of said tape at the seam forming point on the mandrel to underlie the free edge margin of the incoming liner strip at said seam forming point, and (d) applying heat and pressure to said tape and said liner strip while on said mandrel to heat seal each to the other and complete the tape seal along the spiral seam of said tubular liner.

International (IPC 8-9): B31C3/00 (Advanced/Invention);
B31C3/00 (Core/Invention)
International (IPC 1-7): B31C3/04
CPC: B31C3/00
European: B31C3/00
US: 156/190 174/108 229/5.82 493/274 493/276 493/292 493/294
493/297 493/299

**Family:**

Publication number	Publication date	Application number	Application date
US3196762 A	19650727	US19640407610	19641008

Priority:

US19640407610 19641008

Probable Assignee:

ALUMINUM CO OF AMERICA

Assignee(s): (std):

ALUMINUM CO OF AMERICA

Assignee(s):

ALUMINUM COMPANY OF AMERICA

Inventor(s): (std):

SCHMELTZ ANDREW H

24) Family number: 19562496 (GB645697A)

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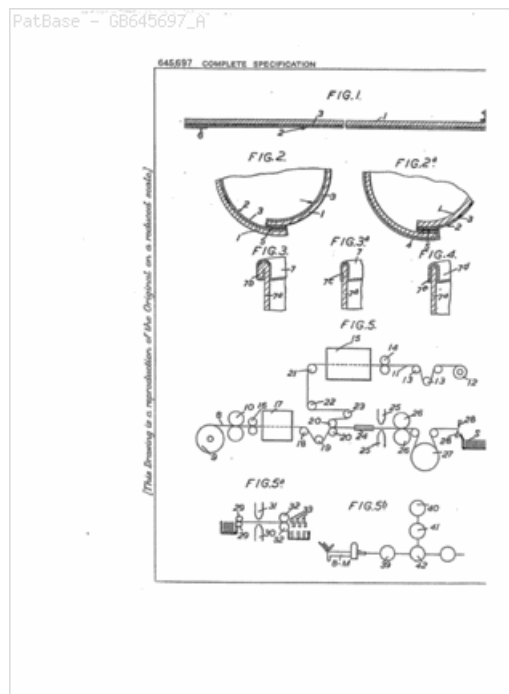
Title: Improvements in or relating to containers

Abstract: An adhesive for laminating sheet materials comprises a mixture of 87: 13 vinyl chloride-acetate copolymer with at least 40 per p cent of a like polymer which includes 1 or 2 per cent of maleic anhydride copolymerized therewith, plus 3 to 15 per cent of plasticizer, in a ketone, preferably methyl isobutyl ketone, or a ketone and coal-tar solvent. With such resins may be included up to 10 per cent of non-heat-hardening phenol- or orthocresol-aldehyde resin. The plasticizer may be diamyl phthalate, dibutoxy ethyl phthalate or a high boiling organic ester of phthalic or sebacic acid.

Classifications:**International (IPC 8-9):** B65D3/22 (Advanced/Invention);

B65D3/00 (Core/Invention)

CPC: B65D3/22**European:** B65D3/22

**Family:**

Publication number	Publication date	Application number	Application date
GB645697 A	19501108	GB19470009358	19470408

Probable Assignee: CONTINENTAL CAN CO

Assignee(s): (std): CONTINENTAL CAN CO

Assignee(s): CONTINENTAL CAN CO INC ; CONTINENTAL CAN COMPANY INC

25) Family number: 1008746 (US3669346A)

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Title: QUICK OPENING CONTAINER

Abstract: A cylindrical dough can including a body wall formed from two rectangular sheets of approximately equal size bonded together with two pairs of corresponding edges out of alignment so as to form two extensions. The body wall is made into a tube with the extensions bonded together in overlapping relationship along a permanent longitudinally extending seal. Within the body wall is a thin fluid impervious sealing liner, e.g., a foil having a mechanically weak but fluid tight inner seal isolated from the longitudinal seal. A provision such as a tear string is used for severing the outer sheet along a line spaced circumferentially from the overlap area. When pulled, the string penetrates the complete thickness of the outer sheet thereby providing a flap which serves as a pull tab. When the pull tab is lifted, tension is transmitted from the outer extension to the inner extension through the permanent seal thereby separating adjacent cut edges of the inner sheet from one another. The inner seal is then opened.

Classifications:

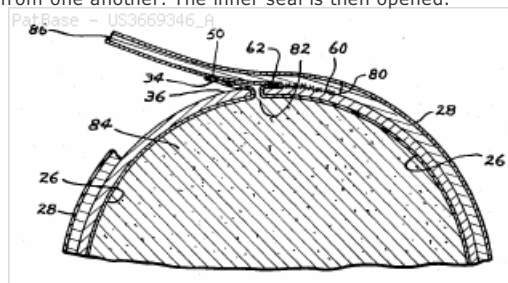
International (IPC 8-9): B65D3/26 (Advanced/Invention); B65D3/00 (Core/Invention)

International (IPC 1-7): B65D3/26 B65D85/36

CPC: Y10S206/83 B65D3/265

European: B65D3/26B2C

US: 206/830 229/201 229/4.5 229/45 229/51BP

**Family:**

Publication number	Publication date	Application number	Application date
US3669346 A	19720613	US19690838926	19690703

Priority:

US19690838926 19690703

Probable Assignee: PILLSBURY CO

Assignee(s): (std): PILLSBURY CO

Assignee(s): PILLSBURY CO THE

Inventor(s): (std): TURPIN CHARLES H ; REJSA JACK J ; REID FRANCIS R ; LEEZER JAMES R

Inventor(s): JAMES R LEEZER ; JACK J REJSA ; FRANCIS R REID ; CHARLES H TURPIN