

Search query (3): fn=(54161234 or 52348891 or 52348891 or 50519376 or 54161234 or 54161243 or 54161234 or 54161243 or 57403185 or 41937394 or 57403186 or 57403186 or 55899968 or 54742746 or 63513649 or 42181152 or 33111071 or 42984077 or 50519376 or 42759249 or 50519376 or 42180426 or 42181152 or 33111071 or 52608002 or 37086723 or 41937394 or 55899968 or 33111071 or 53507336 or 57403186 or 57403186 or 42984077 or 52608002 or 57403186 or 52348891 or 57403185 or 33514094 or 42181152 or 54161234 or 57403186 or 54161243 or 33111071 or 52078307 or 57403186 or 52348891 or 50519376 or 54161234 or 54161243 or 41968127 or 224757 or 3324468 or 3738560 or 10549008 or 10674376 or 30543328 or 29000271 or 43047041 or 14946838 or 14073343 or 15505759 or 31584145 or 3394961 or 17974168 or 33111071 or 43047041 or 10135570 or 10203369 or 28669382 or 30455912 or 14946838 or 11282677 or 30984778 or 43047041)
Results: 41

1) Family number: 52608002 (US2013020324A)

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Title: SEALING MEMBER WITH REMOVABLE PORTION FOR EXPOSING AND FORMING A DISPENSING FEATURE
Priority: US20110501075P 20110624 EP20120802009 20120621 US20120529504 20120621
WO2012US43568 20120621 US20140298378 20140606

Family:	Publication number	Publication date	Application number	Application date
	AU2012272897 AA	20140123	AU20120272897	20120621
	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
	EP2723649 B1	20191023	EP20120802009	20120621
	ES2757684 T3	20200429	ES20120802009T	20120621
	IN00417CN2014 A	20150403	IN2014CN00417	20140117
	IN325410 B	20191122	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

Probable Assignee: SELIG SEALING PRODUCTS INC**Assignee(s):(std):** BRUCKER STEVEN A ; SELIG SEALING INC ; SELIG SEALING PRODUCTS INC ; THORSTENSEN WOLL
ROBERT WILLIAM**Assignee(s):** GENERAL ELECTRIC CAPITAL US AGENT AS CORP**Inventor(s):(std):** ROBERT WILLIAM THORSTENSEN WOLL ; STEVEN A BRUCKER ; THORSTENSEN WOLL ROBERT WILLIAM ;
BRUCKER STEVEN A**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP;
SILVANA MARIA LOPEZ DIAZ; JONES HELEN MM; GILL JENNINGS AND EVERY LLP; ELZABURU SLP; 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 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 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**International class (IPC 8-9):** B32B1/02 B32B15/04 B32B15/08 B32B27/06 B32B27/08 B32B27/16 B32B27/30 B32B27/32 B32B27/36
B32B3/04 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:** B32B1/02 B32B3/04 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 B65D17/501 B65D77/206 B32B3/16 B32B3/20**US class:** 1/1 215/232 215/250 220/258.2 220/266 220/270**JP class F-Term:** 3E084 3E084/AA02 3E084/AA04 3E084/AA12 3E084/AB01 3E084/AB07 3E084/BA01 3E084/BA06
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3E084/HC08 3E084/HD01 3E084/KB01 3E084/LA02 3E084/LB02 3E084/LD01**JP class F-Index:** B65D47/36/T B65D53/04/A B65D53/04/100[Classification Explorer](#)**Cited documents:** WO9905041 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1,
WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2,
WO08027036 A1, WO08027029 A2, WO06108853 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1,

WO0066450 A1, USRE39790 E, USRE33893 E, US8348082 BB, US8329288 BB, US8057896 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7217454, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6902075, US6866926 BA, US6866926, US6790508 BB, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6627273 BB, US6602309 BB, US6548302 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6082566 A, US6056141 A, US5975304 A, US5915577 A, US5871112 A, US5860544 A, US5860544 A, US5702015 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5514442 A, US5514442 A, US5513781 A, US5433992 A, US5433992 A, US5265745 A, US5197618 A, US5178967 A, US5149386 A, US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US5004111 A, US4961986 A, US4960216 A, US4960216 A, US4837061 A, US4811856 A, US4801647 A, US4770325 A, US4741791 A, US4735335 A, US4666052 A, US4636273 A, US4596338 A, US4588099 A, US4582735 A, US4206165 A, US4133796 A, US3990603 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2014186589 AA, US2014061196 AA, US2013020324 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012067896 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008233339 AA, US2008231922 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007267304 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005208242 AA, US2005048307 AA, US2004109963 AA, US2004043238 AA, US2003168423 AA, US2002068140 AA, MX5002002905 A1, MX290002905, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP2000219278 A2, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1199253 A2, EP1199253 A2, EP1075921, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1,

DE202009000245 U1

DE10204281 A1,

DE102007022935 B4

DE102006030118 B3

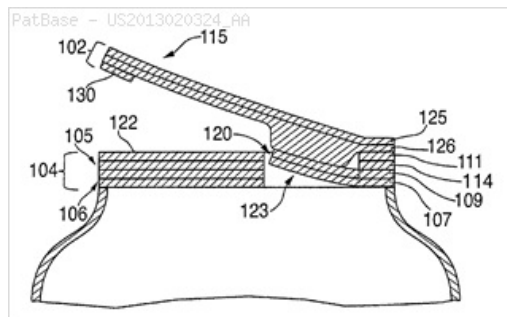
CN200974670 Y, CN101111437 A, CN101054006 A, CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations:

WO15009658, US9994357, US9815589, US9676513, US9656780, US9624008, US9533805, US9469456, US9457940, US9440768, US9440765, US9333289, US9278793, US9227755, US9221579, US9211990, US9193513, US9102438, US9028963, US2017152086, US2017029180, US2016325896, US2016046422, US2015158643, US2014209606, US2014061197, US10604315, US10569937, US10567732, US10549889, US10494160, US10486870, US10342914, US10279968, US10196174, US10150590, US10150589, US10000310, FR3015925, FR3015925, EP3022121,

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.



2) Family number: 10549008 (EP0668221A1)

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Title: PROCESS FOR PRODUCING A SEALED JOINT FOR SEALING A CONTAINER CLOSED BY A STOPPER OR A CAP AND SEALED JOINT SO PRODUCED

Priority: FR19940002221 19940222

Family:

Publication number	Publication date	Application number	Application date
DE69502849 D1	19980716	DE19956002849	19950221
DE69502849 T2	19981008	DE19956002849T	19950221
EP0668221 A1	19950823	EP19950420042	19950221
EP0668221 B1	19980610	EP19950420042	19950221
FR2716407 A1	19950825	FR19940002221	19940222
FR2716407 B1	19960412	FR19940002221	19940222

Probable Assignee: JOINTS MANUF GENERALE

Assignee(s):(std): JOINTS MANUF GENERALE

Assignee(s): MANUFACTURE GENERALE DE JOINTS ; MANUFACTURE GENERALE DE JOINTS CHAZAY D AZERGUES R ; MANUFACTURE GENERALE DE JOINTS CHAZAY D AZERGUES RHONE FR ; MANUFACTURE GENERALE JOINTS

Inventor(s):(std): JOSEPH DELORME ; DELORME JOSEPH

Inventor(s): DELORME JOSEPH F 01600 TREVoux FR

Designated states: BE CH DE ES GB IT LI

International class (IPC 8-9): B31D1/00 B31D1/02 B65D51/20 B65D77/20 (Advanced/Invention); B31D1/00 B65D51/18 B65D77/10 (Core/Invention)

International class (IPC 1-7): B31B1/16 B31B1/62 B31D1/02 B65D55/06 B65D77/20

CPC: B31D1/0018 B65D51/20 B65D2251/0015 B65D2251/0093 B65D2577/205

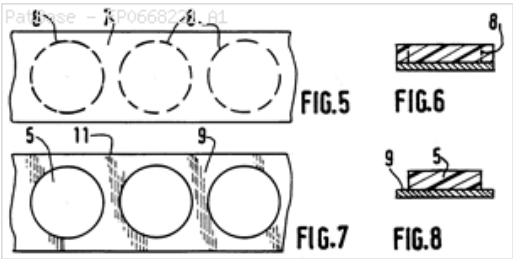
European class: B31D1/00C B31D1/02D B65D51/20 L65D251/00Y2D L65D251/00Y6M L65D577/20M1

[Classification Explorer](#)

Cited documents: US4328057 A, GB2218682 A1, FR2625136 A1,

Forward Citations: WO9905041, WO13017754, WO12152622, WO12079971, WO10115811, WO09040486, US9994357, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440766, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9132947, US9102438, US9028963, US8906185, US8852725, US8746484, US8715825, US8703265, US8672168, US8522990, US8517201, US8308003, US8225954, US8201385, US8057896, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10005598, US10000310, FR2921347, FR2916157, FR2916156, EP2651635, EP2554487, EP2045194, EP2045194, EP1992476, EP1462381, EP1462381, EP0998415, EP0781711, DE102015013958, DE102011106768, DE102011106768, DE102010054494, DE102009016312, DE102008020472, DE102008020472, DE102007014084, AU2008303432,

Abstract:
The procedure consists of pre-cutting circular discs (5,2) for the seal from two separate strips of material, and joining them together with a temporary adhesive (6) so that they are accurately aligned. One of the discs (5) forms a compressing backing layer of plastics foam or cardboard. The other, which forms the sealing, is of aluminium film which is plastics coated to stick it to the rim of the container and equipped with a tongue (4) for removing it.



3) Family number: 43047041 (US2009078671A)

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Title: SEALING DISC WITH TAB FOR CLOSING A CONTAINER HAVING A PLUG OR CAP CLOSURE AND FABRICATION METHOD

Priority: FR20070057839 20070925 EP20080305457 20080807 WO2008FR51476 20080807

Family:

Publication number	Publication date	Application number	Application date
AT440042 E	20090915	AT20080305457T	20080807
AU2008303432 AA	20090402	AU20080303432	20080807
AU2008303432 BB	20110120	AU20080303432	20080807
BRPI0810889 A2	20141029	BR2008PI10889	20080807
BRPI0810889 B1	20181030	BR2008PI10889	20080807
CA2693664 AA	20090402	CA20082693664	20080807
CA2693664 C	20160126	CA20082693664	20080807
CN101687582 A	20100331	CN200880021703	20080807
CN101687582 B	20110413	CN200880021703	20080807
DE602008000102 D1	20091001	DE200860000102T	20080807
EP2045194 A1	20090408	EP20080305457	20080807
EP2045194 B1	20090819	EP20080305457	20080807
EP2045194 B2	20160106	EP20080305457	20080807
ES2328299 T3	20091111	ES20080305457T	20080807
ES2328299 T5	20160302	ES20080305457T	20080807
FR2921347 A1	20090327	FR20070057839	20070925
FR2921347 B1	20110819	FR20070057839	20070925
HK1141500 A1	20101112	HK20100107949	20100820
HK1141500 A1	20111230	HK20100107949	20100820
HK1141500 B	20111230	HK20100107949	20100820
IL204478 A0	20101031	IL20080204478	20080807
IL204478 A1	20150331	IL20080204478	20080807
IN01060DN2010 A	20130913	IN2010DN01060	20100216
IN282798 B	20170428	IN2010DN01060	20100216
JP2010540354 T2	20101224	JP20100525393T	20080807
JP5166536 B2	20130321	JP20100525393T	20080807
MX2010001867 A1	20100427	MX20100001867	20080807

MY165701 A	20180420	MY20100001247	20080807
PL2045194 T3	20100129	PL20080305457T	20080807
PL2045194 T5	20160531	PL20080305457T	20080807
PT2045194 T	20090902	PT20080305457T	20080807
RU2009147742 A	20110627	RU20090147742	20080807
RU2448884 C2	20120427	RU20090147742	20080807
UA96656 C2	20111125	UA20100003229	20080807
US2009078671 AA	20090326	US20080200364	20080828
US8672168 BB	20140318	US20080200364	20080828
WO09040486 A1	20090402	WO2008FR51476	20080807
ZA201001906 A	20110525	ZA20100001906	20100317

Probable Assignee: MANUFACTURE GENERALE DE JOINTS

Assignee(s):(std): BISCHOFF REMY ; JOINTS MANUF GENERALE ; MANJUFAKTJUR ZHENERAL DE ZHUAN ; TRIQUET STEPHANE ; MFT GENERALE DE JOINTS ; MANUF GENERALE DE JOINTS SOC P

Assignee(s): MANUFACTURE GENERALE DE JOINTS SOC PAR ACTIONS SIMPLIFIEE ; MANUFACTURE GENERALE DE JOINTS CHAZAY D AZERGUES ; MANUFACTURE GENERALE DE JOINTS ; MANUFACTURE GENERALE DE JOINTS SOCIETE PAR ACTIONS SIMPLIFIEE

Inventor(s):(std): BISCHOFF R MY ; BISCHOFF RA MY ; BISCHOFF REMY ; TRIQUET ST PHANE ; TRIQUET STA PHANE ; TRIQUET STEPHANE ; TRIKE STEFAN ; BISHOFF REMI ; STEPHANE TRIQUET ; REMY BISCHOFF

Inventor(s): R MY BISCHOFF ; ST PHANE TRIQUET

Agent(s): GRIFFITH HACK; BROUILLETTE AND ASSOCIES PARTNERS; DENJEAN ERIC; CABINET LAURENT AND CHARRAS; CURELL MIREIA; CABINET LAURENT ET CHARRAS; WOLFF BREGMAN AND GOLLER; HESLIN ROTHENBERG FARLEY AND MESITI PC; JOHN; TECH VALLEY PATENT LLC; DENJEAN ERIC 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 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 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

International class (IPC 8-9): B32B3/04 B65D B65D17/34 B65D41/00 B65D51/20 B65D53/00 B65D53/04 B65D53/06 B65D53/08 B65D65/40 B65D77/20 (Advanced/Invention); B65D41/00 B65D51/00 B65D51/18 B65D53/00 B65D77/10 (Core/Invention); B65D (Subclass/Invention)

International class (IPC 1-7): B65D51/20

CPC: Y10T29/49 B65D51/20 B65D53/04 B65D2251/0015 B65D2251/0093 B65D2577/205

European class: B65D51/20 B65D53/04 L65D251/00Y2D L65D251/00Y6M L65D577/20M1

US class: 215/232 215/347 220/359.2 220/359.3 29/592 29/592S

JP class F-Term: 3E067 3E067/BC07 3E067/CA21 3E067/CA24 3E067/EA06 3E067/EA36 3E067/EB27 3E067/FA01 3E067/FC01 3E084 3E084/AA12 3E084/BA02 3E084/BA09 3E084/CA01 3E084/CB04 3E084/CC02 3E084/CC04 3E084/CC05 3E084/CC08 3E084/FD13 3E084/GB17 3E084/HA01 3E084/HC07 3E084/HC08 3E084/HD01 3E084/LA02 3E084/LA17 3E084/LB02 3E084/LB07 3E086 3E086/AB01 3E086/AC15 3E086/AD24 3E086/BA04 3E086/BA13 3E086/BA15 3E086/BA16 3E086/BA40 3E086/BB35 3E086/BB51 3E086/CA01 3E086/CA11 4F100 4F100/AB10 4F100/AK04 4F100/AK07 4F100/AK12 4F100/AK41 4F100/AT00 4F100/BA04 4F100/BA05 4F100/BA07 4F100/BA10 4F100/CB00 4F100/DB01 4F100/DJ01 4F100/EH17 4F100/EJ38 4F100/GB18 4F100/JG01 4F100/JL12

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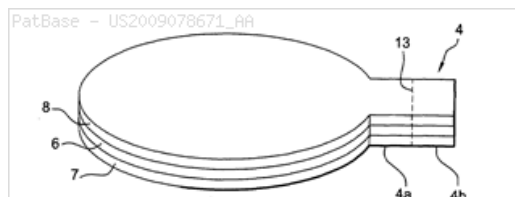
[Classification Explorer](#)

Cited documents: US6378715 BA, US5372268 A, US4822326 A, US4754890 A, US2011089177 AA, US2008073308 AA, JP3029757 A2, JP2000191021 A2, GB2330134 A1, FR2716407 A1, FR2716407 A1, DE9108868 U1, DE9108868 U1, DE9108868 U, DE3920324 A1, DE3920324 A1, CA2019501 AA,

Forward Citations: WO18115732, WO14109963, WO13150137, WO13092518, WO13092472, WO13017754, WO12152622, WO10115811, US9994357, US9834347, US9834339, US9815589, US9688448, US9676513, US9637288, US9624008, US9533805, US9440768, US9440766, US9440765, US9278793, US9278506, US9261655, US9227755, US9221579, US9193513, US9156584, US9102438, US9028963, US8906185, US8852725, US8746484, US8715825, US8703265, US8522990, US8517201, US8308003, US8225954, US8201385, US8057896, US2018011259, US2015298414, US2015274330, US2014312039, US2012103988, US2011089177, US2010193463, US2010047552, US2008169286, US2006151415, US10604315, US10602776, US10556732, US10551572, US10293989, US10259626, US10196174, US10162124, US10150590, US10150589, US10005598, US10000310, RU2635085, RU2587397, PT108225, JP5985636, JP2015506315, JP2015506314, JP2014525878, JP2014213897, JP2012522694, FR3060542, FR3060542, FR2943322, EP2924483, EP2924483, EP2834162, EP2794418, EP2794413, EP2607260, EP2607259, EP2554487, DE102013015581, DE102012006934, DE102011106768, DE102011106768, DE102009016312, CN104044806, CN104044806, CN104010946, CN103619720, CN103619720, AU2012357931,

Abstract:

Sealing disc (1) for closing a container having a plug or cap closure, comprising a support (2) to be positioned at the bottom of the plug or of the cap, joined by means of a temporary adhesive (7) to a membrane seal (3) to be sealed on the mouth of the container, the membrane seal (3) being provided on all or part of its thickness with a prolongation constituting a pull tab (4), characterized in that the whole surface of the tab is folded back on the face of the membrane seal (3) in contact with the corresponding face of the support (2).



Title: PULL-TAB SEALING MEMBER WITH IMPROVED HEAT DISTRIBUTION FOR A CONTAINER**Priority:** US20050030275 20050106 AU20050323126 20051219 EP20050854595 20051219
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	IN269598 B	20151030	IN2007CN03118	20070713
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	US9102438 BB	20150811	US20140226932	20140327
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Probable Assignee: SELIG SEALING PRODUCTS INC**Assignee(s):(std):** ILLINOIS TOOL WORKS ; SELIG SEALING PRODUCTS INC ; SMELKO JOSEPH ; THORSTENSEN WOLL ROBERT W ; THORSTENSEN WOLL ROBERT WILLIA ; THORSTENSEN WOLL ROBERT WILLIAM**Assignee(s):** ILLINOIS TOOL WORKS INC ; GENERAL ELECTRIC CAPITAL CORP ; SELIG SEALING PRODUCTS INC FORREST ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP**Inventor(s):(std):** JOSEPH SMELKO ; ROBERT WILLIAM THORSTENSEN WOLL ; SMELKO JOSEPH ; THORSTENSEN WOLL ROBERT ; THORSTENSEN WOLL ROBERT W ; THORSTENSEN WOLL ROBERT WILLIA ; THORSTENSEN WOLL ROBERT WILLIAM ; WILLIA THORSTENSEN WOLL ROBERT**Inventor(s):** THORSTENSEN WOLL ROBERT WILLIAM BARRIE ; THORSTENSEN WOLL ROBERT WILLIAM FORREST ; SMELKO JOSEPH CORNWALL ; SMELKO JOSEPH FORREST**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; FINLAYSON AND SINGLEHURST; JONES HELEN MM; DE ELZABURU ALBERTO; PITNEY HARDIN LLP ACCOUNT ILLINOIS TOOL WORKS INC; FITCH EVEN TABIN AND FLANNERY; FITCH EVEN TABIN AND FLANNERY LLP**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 KN KP KR KZ 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 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**International class (IPC 8-9):** B32B15/04 B32B3/00 B32B3/26 B32B5/00 B32B7/06 B32B7/12 B65D17/00 B65D41/00 B65D51/20 B65D53/00 B65D53/04 B65D65/40 B65D77/20 C09J191/06 C09J5/06 C09J7/02 (Advanced/Invention); B65D53/04 B65D77/20 (Advanced/Non-invention); B65D41/00 B65D51/18 B65D53/00 B65D65/40 B65D77/10 (Core/Invention)**International class (IPC 1-7):** B65D77/20 C09J7/02**CPC:** B32B2307/304 Y10T428/249983 Y10T428/24843 Y10T428/264 B65D17/4011 B32B3/08 B32B7/05 B32B7/12 B32B15/08 B32B27/08 B32B27/306 B32B27/32 B32B27/34 B32B27/36 B32B2307/306 B32B2307/31 B32B2435/02 B65D77/2032 B65D2577/205 Y10T428/28 Y10T428/2804 Y10T428/2813 Y10T428/2817 Y10T428/2826 Y10T428/2839 Y10T428/2848**European class:** B65D77/20E1B L65D577/20M1**US class:** 1/1 215/232 215/305 215/305S 215/347 215/347S 220/258.2 220/258.200S 220/270 220/359.3 220/359.300S 428/200 428/200P 428/317.3 428/317.300S 428/335 428/335S 428/343 428/344 428/344S 428/346 428/347 428/349 428/349S 428/352 428/352S 428/354

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JP class F-Index:

B65D53/04/A B65D53/04/100 B65D65/40/D B65D77/20/L

[Classification Explorer](#)

Cited documents:

WO9905041 A1, WO9605055 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO10001867, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO07109113 A2, WO06108853 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO03066465 A1, WO0066450 A1, USRE39790 E, USRE33893 E, US8348082 BB, US8329288 BB, US8057896 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6627273 BB, US6602309 BB, US6548302 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6096358 A, US6082566 A, US6001471 A, US5975304 A, US5915577 A, US5891555 A, US5871112 A, US5860544 A, US5702015 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5560989 A, US5514442 A, US5513781 A, US5433992 A, US5433992 A, US5381913 A, US5372268 A, US5316835 A, US5265745 A, US5261990 A, US5197618 A, US5178967 A, US5149386 A, US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US4961986 A, US4960216 A, US4938390 A, US4934544 A, US4930646 A, US4882208 A, US4863061 A, US4837061 A, US4818577 A, US4815618 A, US4811856 A, US4801647 A, US4793504 A, US4770325 A, US4767655 A, US4744481 A, US4741791 A, US4735335 A, US4666052 A, US4636273 A, US4596338 A, US4588099 A, US4582735 A, US4531649 A, US4407689 A, US4247428 A, US4206165 A, US4133796 A, US3990603 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US3140196 A, US2838437 A, US2768762 A, US2014186589 AA, US2014061196 AA, US2014001185 AA, US2013020324 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012067896 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005218143 AA, US2005208244 AA, US2005208242 AA, US2005048307 AA, US2004109963 AA, US2004043238 AA, US2003196418 AA, US2003196418 AA, US2003168423 AA, US2002068140 AA, US2001023870 AA, TW200405880, TW194965, TW194965, MXPA05002905, MX5002905, MX5002002905 A1, MX290002905, MX2010001867 A1, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP7044197 U, JP56126121, JP2004315035 A2, JP2000255621 A2, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1445209 A1, EP1445209, EP1199253 B1, EP1199253 A2, EP1075921 A2, EP0915026 A1, EP0835818 A2, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0706473 A1, EP0668221 A1, EP0534949 B1, EP0395660 B1, DE9108868 U1, DE9108868 U, DE9108868,

DE202009000245 U1

DE202009000245 U, DE10204281 A1,

DE102007022935 B4

DE102006030118 B3

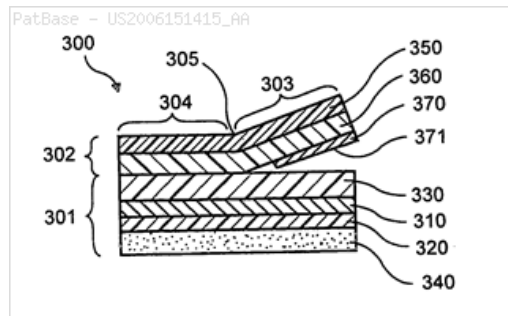
CN1301289 A, CA2203744 AA, CA2015992 AA, BRPI0300992 A, BRMU8200231 U, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1, AT11738,

Forward Citations:

WO18115732, WO18081533, WO17176530, WO16118579, WO15108259, WO13134665, WO12135353, USRE46842, USD826054, USD778157, USD776525, USD757537, USD726537, US9994357, US9834339, US9833979, US9827729, US9815589, US9676513, US9624008, US9533805, US9469456, US9457940, US9400768, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8937550, US8906185, US8852725, US8746484, US8703265, US8674834, US8522990, US8455071, US8308003, US8201385, US7850033, US2018118439, US2018079576, US2016046422, US2015274330, US2015083723, US2014069919, US2014001185, US2012228297, US2012217244, US2012103988, US2011253715, US2011138742, US2011089177, US2011000917, US2010193463, US2010047552, US2009304964, US2009057326, US2008233424, US2008233339, US2008231922, US2008169286, US2008121605, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10131477, US10005598, US10000310, KR101370239, JP2016068968, FR3060542, FR3060542, FR2969129, FR2969129, EP3623312, EP3532281, EP3439866, EP3378799, EP3265397, EP2933204, EP2933204, EP2896576, EP2896576, EP2892819, EP2892819, EP2778090, EP2723649, EP2465790, EP2019045, CN108883602, CN107554965, CN106687386, CN104960791, CN104755388, CN104755388, CN104203765, CN104203765, CN104039660, CN104039660, CN103832689, CN103832689, CN103826986, CN103826986, CN102939248, CN102939248, AU2014201416,

Abstract:

A seal and method of manufacture is provided for sealing containers such as bottles, jars and the like. The seal (i.e., closure) is formed with a lower sheet-like structure having a non-foam, heat-distributing layer thereon. The lower structure includes a foil support layer and has a polymer layer, such as a PET layer disposed on its bottom surface. A heat-activated sealant layer is provided under the bottom surface of the PET layer to bond the seal to a container opening. The non-foam, heat-distributing layer is preferably a polyolefin film. Seals in accordance with preferred embodiments of the invention also include a top portion, which is only partially bonded (directly or indirectly) to the bottom portion, so as to leave a tab portion extending from the seal. The top portion is advantageously bonded from periphery to periphery of the bottom portion and at or slightly offset from the diameter (middle) of the bottom portion. The top portion is advantageously formed with polymer material, such as an ethylene vinyl acetate (EVA) layer, having a layer of PET bonded on the top thereof. A release strip, which can have a release layer coated on the bottom thereof, is adhered to the top or bottom structures and used to prevent the tab from adhering to the lower structure.



5) Family number: 42984077 (US2011138742A)

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Title: MULTI-PURPOSE COVERING AND METHOD OF HYGIENICALLY COVERING A CONTAINER TOP
Priority: US20070957748P 20070824 EP20080828782 20080825 EP20120194595 20080825
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	BRPI0815325 A2	20190924	BR2008PI15325	20080825
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Probable Assignee: SELIG SEALING PRODUCTS INC
Assignee(s):(std): MCLEAN ANDREW ; MCLEAN ANDREW FENWICK ; SELIG SEALING PRODUCTS INC
Assignee(s): SELIG SEALING PRODUCTS INC FORREST ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP
Inventor(s):(std): ANDREW MCLEAN ; MCLEAN ANDREW ; MCLEAN ANDREW FENWICK
Inventor(s): MCLEAN ANDREW READING
Agent(s): SCHUMACHER AND WILLISAU; Schumacher & Willsau; FITCH EVEN TABIN AND FLANNERY LLP; GORDON EDWARD A
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 CM CN CO CR CU 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 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

International class (IPC 8-9): B32B27/08 B32B27/32 B32B27/36 B32B3/02 B32B7/04 B65B51/10 B65B61/18 B65D17/00 B65D17/34 B65D51/00 B65D51/20 (Advanced/Invention); B32B27/08 B65D51/18 (Core/Invention)

International class (IPC 1-7): B32B27/08 B65D51/20

CPC: B32B3/02 B32B27/08 B32B27/32 B32B27/36 B32B2250/24 B32B2307/31 B32B2307/412 B32B2435/02 B32B2439/66 B65D17/28 B65D51/20 B65D2251/0031 B65D2251/0071 B65D2517/0098 B65D17/4012

European class: B32B27/08 B65D17/16 B65D51/20 L65D251/00Y2M L65D251/00Y6A L65D517/00Y9

US class: 1/1 215/232 215/251 220/257.2 220/270 220/359.1 220/359.2 220/359.3 220/359.4 53/329.2 53/329.200P 53/411 53/412 53/420 53/478

[Classification Explorer](#)

Cited documents: WO9921775 A1, WO9921775 A1, WO9702997 A1, WO9313999 A1, WO9308084 A1, WO8902402 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO09029247 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08118563 A1, WO08118563, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO07109113 A2, WO06108853 A1, WO06108853 A1, WO06099260 A1, WO06021291 A1, WO06018556 A1, WO05100186 A1, WO0066450 A1, USRE39790 E, US8329288 BB, US8201385 BB, US8057896 BB, US7997496 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7781037 BB, US7740927 BB, US7713605 BB, US7703625 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7276281 BB, US7224528 BB, US7217454 BB, US7182475 BB, US7144617 BB, US7128210 BB, US7064897 BB, US7029745 BB, US7012032 BB, US7005178 BB, US6986930 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6911241 BB, US6902075 BB, US6866926 BA, US6775036 BB, US6767425 BB, US6737154 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6659507 BB, US6602309 BB, US6531230 BA, US6497336 BB, US6494491 BA, US6461714 BA, US6458302 BA, US6443323 BA, US6378715 BA, US6351537 BA, US6338418 BA, US6312776 BA, US6284337 BA, US6277478 BA, US6258425 BA, US6210766 BA, US6196383 BA, US6194042 BA, US6139931 A, US6131754 A, US6120882 A, US6113720 A, US6082566 A, US6015059 A, US5996832 A, US5975304 A, US5934495 A, US5893477 A, US5887747 A, US5860544 A, US5712042 A, US5702015 A, US5669521 A, US5656360 A, US5647497 A, US5615789 A, US5601200 A, US5598940 A, US5560989 A, US5544770 A, US5514442 A, US5510171 A, US5433992 A, US5381914 A, US5381913 A, US5319475 A, US5265745 A, US5261990 A, US5226281 A, US5218472 A, US5217790 A, US5200253 A, US5197618 A, US5178967 A, US5169707 A, US5160767 A,

US5153042 A, US5149386 A, US5135262 A, US5128779 A, US5125529 A, US5108003 A, US5098495 A, US5084143 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US5004111 A, US4994314 A, US4980222 A, US4961986 A, US4961986 A, US4960216 A, US4934544 A, US4892209 A, US4856857 A, US4837061 A, US4773718 A, US4772650 A, US4767016 A, US4754890 A, US4741791 A, US4708257 A, US4708257 A, US4650082 A, US4579240 A, US4514248 A, US4438850 A, US4266687 A, US4206165 A, US4013188 A, US3671356 A, US3317068 A, US3195764 A, US2012107577 AA, US2012070636 AA, US2012043330 AA, US2011138742 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008257850 AA, US2008233424 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008121605 AA, US2008110896 AA, US2008103262 AA, US2008026171 AA, US2007298273 AA, US2007206249 AA, US2007195392 AA, US2007183047 AA, US2007065609 AA, US2007058227 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005208242 AA, US2005048307 AA, US2004209028 AA, US2004187439 AA, US2004109963 AA, US2004071934 AA, US2003196418 AA, US2003138593 AA, US2002068140 AA, TW194965, MX5002905, MX5002002905 A1, MX2010001867, MX1001867 A, KR100886955 B1, KR100886955, KR100840926 B1, KR100840926, KR100711073 B1, KR100711073, JP2004315035 A2, JP2000255621 A2, JP1240463 A2, GB2298391 A1, GB2273492 A1, FR2943322 A1, FR2916157 A1, FR2754375 A1, EP2292524 A1, EP2230190 A1, EP2014461 A1, EP2014461, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1935636, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1834893 A1, EP1445209 B1, EP1445209, EP0915026 A1, EP0905039 A1, EP0905039 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0803445, EP0717710 B1, EP0717710, EP0706473 B1, EP0706473, EP0668221 A1, DE9108868 U1, DE9108868 U1, DE9108868 U, DE8713226 U1, DE8713226 U1, DE8713226 U,

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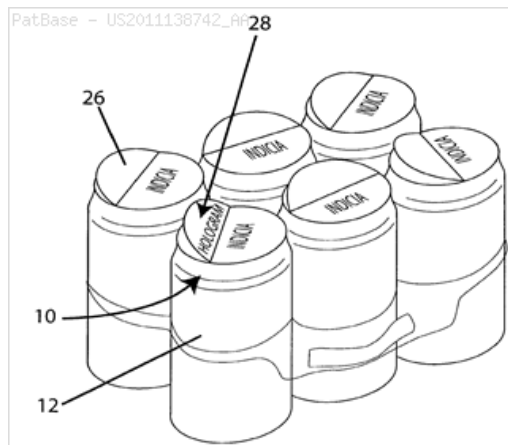
BR8200231 U, BR8200231 U, BR0300992 A, BR0300992, AT501393 A1, AT11738 U1, AT11738 U, AT11738,

Forward Citations:

WO12087168, WO12007496, USD672235, USD658980, US9994357, US9928757, US9834350, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440765, US9415924, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8881940, US8746484, US8708188, US8534490, US8308003, US2018079576, US2016332771, US2015321808, US2015083723, US2012228297, US2010193463, US10604315, US10556732, US10494160, US10486870, US10464723, US10351294, US10279953, US10259626, US10196174, US10150600, US10150590, US10150589, US10138026, US10026339, US10000310, EP2896576, EP2896576, EP2565030, CN105599406,

Abstract:

A covering substrate which is inexpensive to manufacture and adhere to a container yet provides a hygienic environment at a top portion of the container as well as provides multiple promotional or advertising surfaces. A covering substrate capable of being bonded to a rim of a container, the container including a top wall and the rim extending beyond the top wall defining a top portion of the container, the covering providing a hygienic environment at the top portion of the container, including a substrate, a heat seal coating laminated to the substrate and disposed for bonding the substrate to the container substantially along the perimeter of the rim, and a bondable material layered in part to the substrate opposite the heat seal coating, a portion of the bondable material defining a tab therein substantially contained within the perimeter of the substrate.



6) Family number: 33514094 (US2008169286A)

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Title: SEAL STOCK LAMINATE

Priority: EP20050252384 20050415
US20070911532 20071014

EP20060725725 20060412
US20130019334 20130905

WO2006EP61548 20060412
US20160394881 20161230

Family:

Publication number	Publication date	Application number	Application date
AT415273 E	20081215	AT20060725725T	20060412
AU2006234311 AA	20061019	AU20060234311	20060412
AU2006234311 BB	20100325	AU20060234311	20060412
BRPI0610582 A2	20100706	BR2006PI10582	20060412
CA2603631 AA	20071002	CA20062603631	20060412

CA2603631 C	20120605	CA20062603631	20060412
CN101160211 A	20080409	CN200680011986	20060412
CN101160211 B	20121024	CN200680011986	20060412
DE602006003838 D1	20090108	DE200660003838T	20060412
EP1789260 A1	20070530	EP20060725725	20060412
EP1789260 B1	20081126	EP20060725725	20060412
ES2318743 T3	20090501	ES20060725725T	20060412
IN04431CN2007 A	20080125	IN2007CN04431	20071008
JP2008535703 T2	20080904	JP20080505894T	20060412
KR101295219 B1	20130812	KR20077023326	20060412
KR20070121739 A	20071227	KR20077023326	20060412
MX2007012737 A1	20080114	MX20070012737	20060412
NZ563099 A	20110331	NZ20060563099	20060412
US2008169286 AA	20080717	US20060911532	20060412
US2014001185 AA	20140102	US20130019334	20130905
US2017173930 AA	20170622	US20160394881	20161230
US9533805 BB	20170103	US20130019334	20130905
WO06108853 A1	20061019	WO2006EP61548	20060412

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): ILLINOIS TOOL WORKS ; MCLEAN ANDREW FENWICK ; O BRIEN DAVID JOHN ; SACHS VICTOR ; THORNHILL CRAIG WARREN ; SELIG SEALING PRODUCTS INC

Assignee(s): ILLINOIS TOOL WORKS INC ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP ; GENERAL ELECTRIC CAPITAL CORP

Inventor(s):(std): FENWICK MCLEAN ANDREW ; MCLEAN ANDREW FENWICK ; O BRIEN DAVID JOHN ; SACHS VICTOR ; THORNHILL CRAIG WARREN ; VICTOR SACHS ; WARREN THORNHILL CRAIG ; JOHN O BRIEN DAVID ; BRIEN DAVID JOHN O

Inventor(s): ANDREW FENWICK MCLEAN ; CRAIG WARREN THORNHILL ; DAVID JOHN O BRIEN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FINLAYSON AND SINGLEHURST; JONES HELEN MM; LOWE HAUPTMAN GILMAN AND BERNER LLP ITW; FITCH EVEN TABIN AND FLANNERY LLP

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 KN KP KR KZ 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 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

International class (IPC 8-9): B29C65/00 B32B15/08 B32B15/09 B32B27/00 B32B27/08 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B3/02 B32B3/10 B32B37/12 B32B37/20 B32B7/04 B32B7/06 B32B7/12 B32B9/00 B65D1/02 B65D17/00 B65D39/02 B65D41/04 B65D43/02 B65D47/36 B65D51/20 B65D51/22 B65D53/00 B65D53/04 B65D65/40 B65D77/20 C09J123/06 C09J123/08 C09J7/02 (Advanced/Invention); B32B37/20 B65D51/20 B65D53/04 (Advanced/Non-invention); B29C65/00 B32B15/08 B32B27/00 B32B37/14 B32B9/00 B65D47/00 B65D51/18 B65D53/00 B65D65/40 (Core/Invention)

International class (IPC 1-7): B32B37/20

CPC: B32B3/02 B32B3/10 B32B7/04 B32B7/06 B32B7/12 B32B15/08 B32B15/09 B32B27/08 B32B27/30 B32B27/36 B32B27/30 B32B27/30 B32B27/32 B32B27/34 B32B2250/05 B32B2307/4023 B32B2307/412 B32B2307/75 B32B2311/00 B32B2323/04 B32B2323/10 B32B2331/04 B32B2333/00 B32B2367/00 B32B2377/00 B32B2435/02 B65D39/02 B65D39/025 B65D43/0225 B65D43/0233 B65D43/0277 B65D51/22 B65D51/228 B65D77/20 B65D77/2024 B65D77/2032 B65D77/204 C09J123/06 C09J123/08 C09J123/0853 C09J123/0869 Y10T428/215 Y10T428/24802 Y10T428/24851 Y10T428/24868 Y10T428/28 Y10T428/31681 Y10T428/31725 Y10T428/31746 Y10T428/3175 Y10T428/31786 Y10T428/31797 Y10T428/31909 Y10T428/31913 Y10T428/31928 Y10T428/31935 Y10T428/31938 B32B37/1284 B32B2435/00 Y10T428/2826 Y10T428/31504 B65D41/045 B65D41/0485 B65D1/0246 B65D43/0283 C09J2467/006 C09J2433/00 C09J2431/006 C09J2423/046 C09J2423/106 B32B27/36 B65D53/00 B65D51/20 C09J7/29 B65D17/28 B65D17/4011 B65D17/4012 B32B7/05

European class: B32B37/12D L32B435/00

US class: 1/1 156/182 156/182S 220/257.2 220/257.200P 220/288 428/349 428/411.1 428/411.100S 428/480

JP class F-Term: 3E084 3E084/AA04 3E084/AA12 3E084/AB01 3E084/AB05 3E084/BA02 3E084/BA03 3E084/BA09 3E084/CA01 3E084/CB02 3E084/CB03 3E084/DB12 3E084/FA09 3E084/FB01 3E084/GA04 3E084/GA08 3E084/GB04 3E084/GB12 3E084/GB17 3E084/HA02 3E084/HC07 3E084/HC08 3E084/HD01 3E084/KB01 3E084/LA02 3E084/LB02 3E084/LB07 3E084/LD01 3E086 3E086/AB02 3E086/AC07 3E086/AD24 3E086/BA04 3E086/BA13 3E086/BA14 3E086/BA15 3E086/BB51 3E086/BB52 3E086/CA11 3E086/CA28 3E086/DA08 4F100 4F100/AB01 4F100/AB33 4F100/AK01 4F100/AK04 4F100/AK25 4F100/AK41 4F100/AK42 4F100/AK46 4F100/AL01 4F100/AS00 4F100/BA05 4F100/BA07 4F100/CB00 4F100/DG10 4F100/DJ01 4F100/EA01 4F100/EC18 4F100/GB16 4F100/HB31

JP class F-Index: B32B15/08/104/A B32B15/09/A B65D47/36/S B65D53/00/A B65D53/00/100 B65D53/04/A B65D53/04/100 B65D65/40/A

[Classification Explorer](#)

Cited documents: WO9905041 A1, WO9702997 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO06108853 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO03066465 A1, WO0066450 A1, USRE39790 E, USRE33893 E, US9102438 BB, US9028963 BB, US8906185 BB, US8348082 BB, US8329288 BB, US8308003 BB, US8129009 BB, US8057896 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US7012032 BB, US6974045 BA, US6955736 BB, US6946177 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6659507 BB, US6627273 BB, US6602309 BB, US6548302 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6277478 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6082566 A, US6027776 A, US5975304 A, US5915577 A, US5871112 A, US5860544 A, US5726283 A, US5702015 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5514470 A, US5514442 A, US5514434 A, US5513781 A, US5433992 A, US5319475 A, US5265745 A, US5217790 A, US5197618 A, US5178967 A, US5149386 A,

US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5053457 A, US5015318 A, US5004111 A, US4961986 A, US4960216 A, US4934544 A, US4892209 A, US4863061 A, US4837061 A, US4811856 A, US4801647 A, US4770325 A, US4741791 A, US4735335 A, US4679519 A, US4666052 A, US4636273 A, US4596338 A, US4588099 A, US4582735 A, US4206165 A, US4133796 A, US3990603 A, US3620898 A, US3556816 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2014224800 AA, US2014186589 AA, US2014061196 AA, US2013020324 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012067896 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010028668 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009142530 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008145581 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005208242 AA, US2005048307 AA, US2004109963 AA, US2004043238 AA, US2003196418 AA, US2003186047 AA, US2003168423 AA, US2003087057 AA, US2002193820 AA, US2002068140 AA, US2001031348 AA, MX290002905, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP2001059187 A2, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1445209 A1, EP1199253 B1, EP1075921, EP0915026 A1, EP0905039 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1, DE9108868,

DE202009000245 U1

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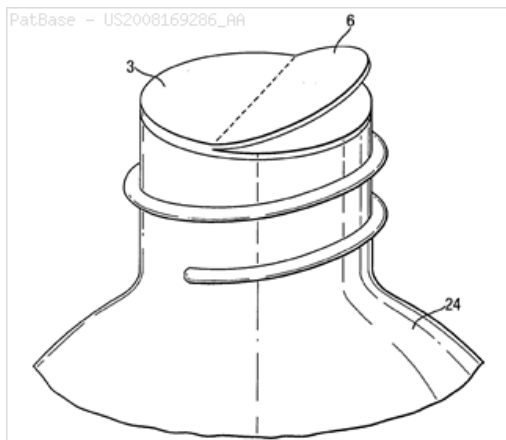
DE102006030118 B3

Forward Citations:

CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1, WO15119988, WO14039365, WO14039364, WO13134665, WO09092066, WO09092066, WO09029247, WO09029247, WO08079730, US9994357, US9950849, US9834339, US9815589, US9718574, US9676513, US9624008, US9533805, US9440768, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8906185, US8852725, US8746484, US8715825, US8703265, US8522990, US8348082, US8308003, US8201385, US8057896, US2017029189, US2015274330, US2013270143, US2013200138, US2010193463, US10604315, US10569948, US10556732, US10259626, US10196174, US10150590, US10150589, US10005598, US10000310, TWI594931, RU2710907, KR20140031824, KR101557438, KR101557287, KR101496338, GB2501967, EP3378799, EP3102499, EP3028956, EP3028956, EP2933204, EP2933204, EP2892819, EP2892818, EP2892818, EP2822871, EP2778092, EP2778091, EP2778091, EP2778090, EP2565030, EP2565030, EP2465790, EP2183106, EP2014461, EP1935636, EP1935636, CN107512480, CN107512480, CN105934392, CN105934392, CN104755388, CN104755388, CN104755387, CN104755387, CN104755381, CN104755381, CN104044807, CN104044807, CN104044805, CN104044805, CN103950235, CN103832689, CN103832689, AU2013251225, AU2013202349, AU2007337099,

Abstract:

A method for producing a primary laminate including a tabstock the steps of; feeding a seal laminate comprising bottom food contact layers including a foil layer and a top polyester layer to a laminating station wherein either the foil layer or the underside of the polyester layer has been printed; simultaneously feeding a tabstock, which is narrower than the seal laminate, to the laminating station such that the bottom of the tabstock and the top polyester layer of the seal laminate come into contact to form a primary substrate, the top face of which is partly comprised of the top face of the tabstock and partly comprised of the top polyester layer of the heat sealable laminate, prior to reaching the laminating station; simultaneously feeding a plastic film stock which has top and bottom surfaces to the laminating station; and continuously extruding a polymeric adhesive between the top face of the primary substrate and bottom surface of the plastic film stock such that the two are adhered together with a bond strength greater than 15 N/cm as measured when the tabstock is pulled at 90 degrees to the machine direction and at 180 degrees to the primary substrate to form a primary laminate including a tabstock. The primary laminate formed can then be laminated to a board or synthetic secondary liner.



7) Family number: 41968127 (WO08113855A1)

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Title: METHOD FOR PRODUCING A SEALING DISK AND SEALING DISK

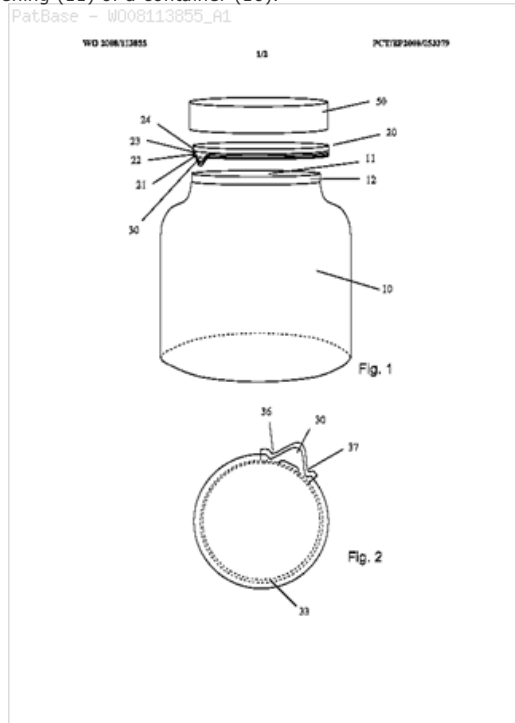
Priority: DE200710014084 20070321 WO2008EP53379 20080320

Family: Publication number Publication date Application number Application date

DE102007014084 B3	20080703	DE200710014084	20070321
EP2125354 A1	20091202	EP20080735446	20080320
WO08113855 A1	20080925	WO2008EP53379	20080320

Probable Assignee: ALFELDER KUNSTSTOFFW MEYER H
Assignee(s):(std): ALFELDER KUNSTSTOFFW MEYER H ; WIENING HEINZ RUDOLF
Assignee(s): ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH
Inventor(s):(std): WIENING HEINZ RUDOLF
Agent(s): EINSEL MARTIN; EINSEL MARTIN 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
International class (IPC 8-9): B31D1/00 B65D51/20 B65D53/04 (Advanced/Invention); B31D1/00 B65D51/18 B65D53/00 (Core/Invention)
CPC: B31D1/0018 B65D41/045 B65D51/20 B65D53/04 B65D2251/0015 B65D2251/0093 B65D2577/205
European class: B31D1/00C B65D41/04D2 B65D51/20 B65D53/04 L65D251/00Y2D L65D251/00Y6M L65D577/20M1
[Classification Explorer](#)
Cited documents: WO0066453 A1, US4722447 A, JP2000191021 A2, GB2330134 A1, EP1181211 B1, EP0717710 B1, EP0697345 B1, EP0668221 B1, EP0408217 A1, DE1482575 A1,
Forward Citations: WO13150137, WO13017754, WO12152622, WO10115811, US9440766, US9156584, RU2587397, FR2962719, EP2834162, EP2554487, DE202011050481, DE102013015581, DE102012006934, DE102011106768, DE102011106768, DE102009016312, DE102008020472, DE102008020472, CN103619720, CN103619720, AU2012291959,

Abstract:
The invention relates to a method for producing a sealing disk (20) and to a sealing disk (20) having at least one outwardly projecting grip tab (30). The lower layers (21, 22, 23) of the sealing disk (20) are detachably connected to the upper layers (24) of the sealing disk (20). The upper layers (24) can form another temporary closure of an opening (11) of a container (10).



8) Family number: 31584145 (JP2005008246A)

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Title: TUBE CONTAINER HAVING SEAL
Priority: JP20030176702 20030620
Family:

Publication number	Publication date	Application number	Application date
JP2005008246 A2	20050113	JP20030176702	20030620

Probable Assignee: DAINIPPON PRINTING CO LTD
Assignee(s):(std): DAINIPPON PRINTING CO LTD
Assignee(s): DAI NIPPON PRINTING CO LTD
Inventor(s):(std): TAKAMORI HIROKO ; TODA KIYOSHI
International class (IPC 8-9): B32B27/00 B32B9/00 B65D35/44 B65D53/04 B65D53/08 (Advanced/Invention); B32B27/00 B32B9/00 B65D35/00 B65D53/00 (Core/Invention)
International class (IPC 1-7): B32B27/00 B32B9/00 B65D35/44 B65D53/04 B65D53/08

JP class F-Term: 3E084 3E084/AA03 3E084/AA23 3E084/AA24 3E084/AA25 3E084/AA37 3E084/BA05 3E084/BA06 3E084/BA07 3E084/BA08 3E084/BA09 3E084/CA01 3E084/CB04 3E084/CC01 3E084/CC03 3E084/CC04 3E084/CC05 3E084/CC07 3E084/CC08 3E084/FA09 3E084/FD13 3E084/GB08 3E084/GB17 4F100 4F100/AA17 4F100/AA20 4F100/AK01 4F100/AK42 4F100/AK51 4F100/AT00 4F100/BA03 4F100/BA04 4F100/BA05 4F100/BA10 4F100/CB01 4F100/EJ38 4F100/GB17 4F100/GB18 4F100/GB23 4F100/HB31 4F100/JB04 4F100/JD01 4F100/JD02 4F100/JD03 4F100/JD04 4F100/JK01 4F100/JK12 4F100/JL14 4F100/JN01

JP class F-Index: B32B27/00/H B32B9/00/A B65D35/44/BRN/H B65D53/04/100 B65D53/04/BSQ/A B65D53/08/BSG

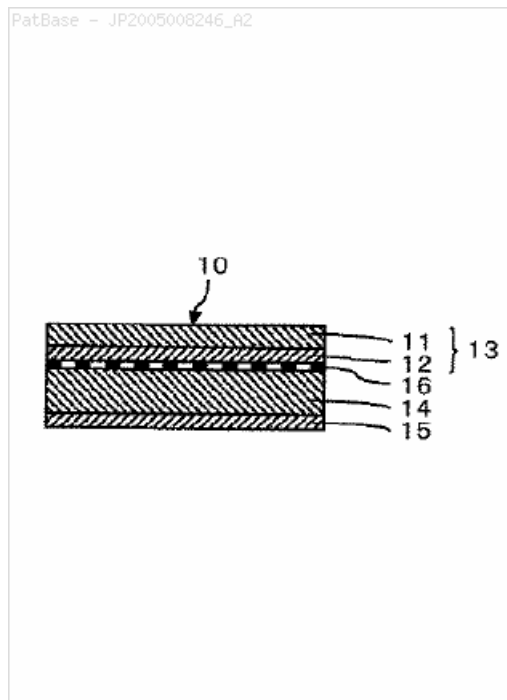
JP class Facet: BRN BSQ BSG

[Classification Explorer](#)

Forward Citations: WO15198576, WO11103670, US7700820, JP6487639, JP2016011121, JP2014524872, JP2012522694, JP2007045488, JP2007045487, EP2539240,

Abstract:

PROBLEM TO BE SOLVED: To provide a tube container having a seal, which ensures, without using an aluminum foil, excellent barrier properties in relation to oxygen gas, water vapor, aroma retention, etc., as well as excellent printing suitability, strength, rigidity, heat-sealability, and unsealability, is useful to package various stuff, for instance, food, drugs, quasi-drugs, cosmetics, and industrial products, allows foreign matter detection of a package by use of a metal detector or the like, prevents tampering with the contents, assures excellent quality safety and preservability, and can be disposed of as combustible waste. SOLUTION: The tube container having the seal wherein the virgin seal material stuck to the leading end of a mouth neck is formed from a laminated body obtained by laminating via an adhesive layer, in order from the outside of the seal material, at least, a barrier layer formed from a biaxial stretched resin film layer with a thin film layer of inorganic oxide, which is formed on the back of the layer, a substrate layer and a sealant layer.



9) Family number: 42181152 (US2008233424A)

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Title: CONTAINER SEAL WITH REMOVAL TAB AND PIERCABLE HOLOGRAPHIC SECURITY SEAL

Priority: US20070896816P 20070323 US20080026723 20080206 WO2008US54375 20080220
US20140936218P 20140205 US20140253901 20140416 EP20150746686 20150204
US20150107560 20150204 WO2015US14363 20150204

Family:	Publication number	Publication date	Application number	Application date
	CA2681683 AA	20081002	CA20082681683	20080220
	CA2681683 C	20150217	CA20082681683	20080220
	DE602015042068 D1	20191212	DE201560042068T	20150204
	EP2132036 A2	20091216	EP20080730222	20080220
	EP3102499 A1	20161214	EP20150746686	20150204
	EP3102499 A4	20170222	EP20150746686	20150204
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	IN201647029672 A	20161007	IN201647029672	20160831
	US2008233424 AA	20080925	US20080026723	20080206
	US2014224800 AA	20140814	US20140253901	20140416
	US2016325896 AA	20161110	US20150107560	20150204
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	US9624008 BB	20170418	US20140253901	20140416
	US10604315 BB	20200331	US20150107560	20150204
	WO08118569 A2	20081002	WO2008US54375	20080220
	WO08118569 A3	20090723	WO2008US54375	20080220

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): ILLINOIS TOOL WORKS ; SELIG SEALING PRODUCTS INC ; THORSTENSEN WOLL ROBERT WILLIA ; SMELKO JOSEPH ; THORSTENSEN WOLL ROBERT WILLIAM

Assignee(s): SELIG SEALING PRODUCTS INC FORREST ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP ; ILLINOIS TOOL WORKS INC

Inventor(s):(std): SMELKO JOSEPH ; THORSTENSEN WOLL ROBERT WILLIA ; THORSTENSEN WOLL ROBERT WILLIAM

Inventor(s): THORSTENSEN WOLL ROBERT WILLIAM BARRIE

Agent(s): MACRAE AND CO; ROUND EDWARD MARK; GILL JENNINGS AND EVERY LLP; ELZABURU SLP; PERRY HOFFMAN AND ASSOCIATES PC; FITCH EVEN TABIN AND FLANNERY LLP; HAUPTMAN BENJAMIN J; 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 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

International class (IPC s-9): B32B15/04 B32B15/08 B32B15/085 B32B15/20 B32B7/06 B32B7/12 B65D43/00 B65D43/02 B65D51/18 B65D51/20 B65D55/06 B65D55/08 B65D77/20 G03H1/00 G03H1/02 G09F3/03 (Advanced/Invention); B32B15/08 B32B7/12 B65D55/02 G09F3/03 (Core/Invention)

CPC: B32B7/06 B32B15/08 B65D43/0235 Y10T428/12535 Y10T428/215 Y10T428/31786 B65D51/20 B65D55/06 B65D77/2056 B65D2251/0015 B65D2251/0093 B65D51/185 B65D2251/0028 B65D2251/0031 B65D2251/009 B65D2401/00 B32B7/12 B32B15/046 B32B15/085 B32B15/20 B32B2266/025 B32B2307/4026 B32B2307/412 B32B2307/748 B65D77/2024 G03H1/0011 G03H1/0244 G03H1/0252 G09F3/0341

European class: B32B15/08 B32B7/06 B32B7/12 G09F3/03A5

US class: 1/1 215/201 215/203 215/204 215/230 215/232 215/258 215/347 220/255 220/268 283/101 283/81 428/480 428/621 428/621P 428/66.4

[Classification Explorer](#)

Cited documents: WO9905041 A1, WO9702997 A1, WO9308084 A1, WO8902402 A1, WO15119988 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO10114879 A1, WO10114879 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08118569 A2, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO07109113 A2, WO06108853 A1, WO06099260 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO05100186 A1, WO05009868 A1, WO0066450 A1, WO00066450, USRE39790 E, USRE33893 E, US9676513 BB, US9533805 BB, US9440768 BB, US9440765 BB, US9227755 BB, US9221579 BB, US9193513 BB, US9102438 BB, US9028963 BB, US8906185 BB, US8715825 BB, US8348082 BB, US8329288 BB, US8308003 BB, US8201385 BB, US8129009 BB, US8057896 BB, US8025171 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7224528 BB, US7217454 BB, US7182475 BB, US7144617 BB, US7128210 BB, US7064897 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US5169707 A, US5160767 A, US5153042 A, US5149386 A, US5135262 A, US5131556 A, US5128779 A, US5125529 A, US5106124 A, US5098495 A, US5084143 A, US5071710 A, US5057365 A, US5055150 A, US5053457 A, US5015318 A, US5004111 A, US4994314 A, US4980222 A, US4961986 A, US4960216 A, US4960216 A, US4938390 A, US4938390 A, US4934544 A, US4934544 A, US4892209 A, US4889731 A, US4867881 A, US4863061 A, US4856857 A, US4837061 A, US4818577 A, US4811856 A, US4801647 A, US4781294 A, US4771903 A, US4770325 A, US4767016 A, US4762246 A, US4741791 A, US4735335 A, US4693390 A, US4666052 A, US4650082 A, US4636273 A, US4596338 A, US4595116 A, US4588099 A, US4582735 A, US4579240 A, US4556590 A, US4514248 A, US4438850 A, US4396655 A, US4266687 A, US4206165 A, US4133796 A, US4013188 A, US3990603 A, US3964670 A, US3556816 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2017253373 AA, US2016185485 AA, US2015321808 AA, US2015225116 AA, US2015197385 AA, US2015053680 AA, US2014224800 AA, 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EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1199253 B1, EP1075921 A2, EP0915026 A1, EP0905039 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717210 B1, EP0706473

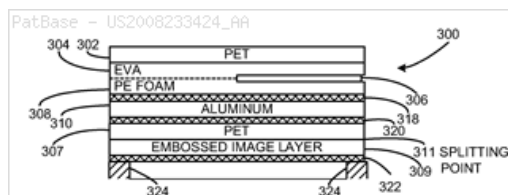
B1, EP0668221 A1, EP0135431 A1,
DE202009000245 U1
DE202009000245 U, DE10204281 A1,
DE102007022935 B4
DE102006030118 B3

CN1301289 A, CA2297840 AA, CA2203744 AA, CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations: WO18115732, WO18081419, WO17125949, WO15143182, WO15119988, WO13134665, USD833530, US9994373, US9994357, US9834339, US9815589, US9676513, US9650180, US9624008, US9533805, US9440768, US9440765, US9278793, US9278506, US9242779, US9227755, US9221579, US9193513, US9102438, US9028963, US8944711, US8746484, US8522990, US8201385, US2018079576, US2017144176, US2016325896, US2015321808, US2014091093, US2014076841, US2014001185, US2013161282, US2010226705, US2008231922, US10604315, US10556732, US10549893, US10460579, US10259626, US10196174, US10150590, US10150589, US10000310, FR3015444, FR3015444, EP3390243, EP3102499, EP3102499, EP2822871, CN109863093, CN107235228, CN107235228, CN105620900, CN105584720,

Abstract:

A holographic sealing member for a container comprises a heat actuated sealant or adhesive layer that secures the sealing member to a container, a metal foil sealing layer over and covering and adhesively bonded to the heat actuated sealant or adhesive layer, a holographic layer over and covering and adhesively bonding to the metal foil layer having an upper plastic layer and a lower embossed image layer, and a tab over and covering and adhesively bonded to the upper plastic layer that may be pulled to remove the tab and the plastic layer from a container, thereby exposing the lower embossed image layer which must then be perforated to gain access to the contents of the container.



10) Family number: 17974168 (US5265745A)

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Title: TAMPER EVIDENT TOP TAB INNERSEAL

Priority: US19920865359 19920408 US19930017964 19930212

Family:	Publication number	Publication date	Application number	Application date
	JP6099912 A2	19940412	JP19930081889	19930408
	JP7044197 U1	19951107	JP19930017673U	19930408
	KR100256518 B1	20000515	KR19930005768	19930407
	KR19930021380 A	19931122	KR19930005768	19930407
	KR200149410 Y1	19990615	KR19930005429U	19930407
	KR930021380 A	19931122	KR19930005768	19930407
	US5265745 A	19931130	US19930017964	19930212

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): UNIPAC CORP ; 3M CO ; MINNESOTA MINING AND MFG

Assignee(s): SELIG CANADA ULC ; SELIG SEALING PRODUCTS INC ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP ; GENERAL ELECTRIC CAPITAL US AGENT CORP AS ; ILLINOIS TOOL WORKS INC ; ITW CANADA ; WALRUS ACQUISITION SUBSIDIARY CANADA ULC ; WYNN S CANADA LTD ; WYNN'S CANADA LTD ; MINNESOTA MINING AND MFG CO 3M ; MINNESOTA MINING AND MFG CO ; MASSMUTUAL PARTICIPATION INVESTORS ; MASSMUTUAL CORPORATE INVESTORS ; MASSACHUSETTS MUTUAL LIFE INSURANCE CO ; GENERAL ELECTRIC CAPITAL CORP

Inventor(s):(std): PERE PIERRE H LE ; PEREYRA RODGER J ; TMC CARTHY HERESA A MC ; WAYNE K MORRIS ; TERESA AIRIN MATSUKAASHII ; ROJIYAA JIYOZE PEREIRA ; PIERU HAWAADO RUPEERU ; MORRIS WAYNE K ; MORRIS WAYNE K ; MCCARTHY THERESA A ; LEPEPE PIERRE H ; UEIN KIISU MORISU

Inventor(s): THERESA A MC CARTHY ; RODGER J PEREYRA ; PIERRE H LE PERE

International class (IPC 8-9): B29D22/00 B65B7/28 B65D41/32 B65D47/36 B65D50/12 B65D51/18 B65D51/20 B65D77/20 (Advanced/Invention); B29D22/00 (Advanced/Non-invention); B29D22/00 B65B7/28 B65D41/32 B65D47/00 B65D50/00 B65D51/18 B65D77/10 (Core/Invention); B29D22/00 (Core/Non-invention)

International class (IPC 1-7): B29D22/00 B32B31/00 B65B7/28 B65D41/32 B65D47/36 B65D50/12 B65D51/18

CPC: B65D51/20 B65D77/204 B65D77/2044 B65D2251/0015 B65D2251/0093 B65D2577/2066

European class: B65D51/20 B65D77/20E1B2 B65D77/20E1B3 L65D251/00Y2D L65D251/00Y6M L65D577/20N

US class: 215/232 215/258 215/305

JP class F-Term: 3E049 3E049/AA05 3E049/AB02 3E049/DB05 3E049/FA04 4F213 4F213/AA04 4F213/AA24 4F213/AD03 4F213/AD06 4F213/AH57 4F213/WA14 4F213/WA54 4F213/WA63 4F213/WB01 4F213/WE02 4F213/WE25

JP class F-Index: B29D22/00 B65B7/01 B65B7/28/G

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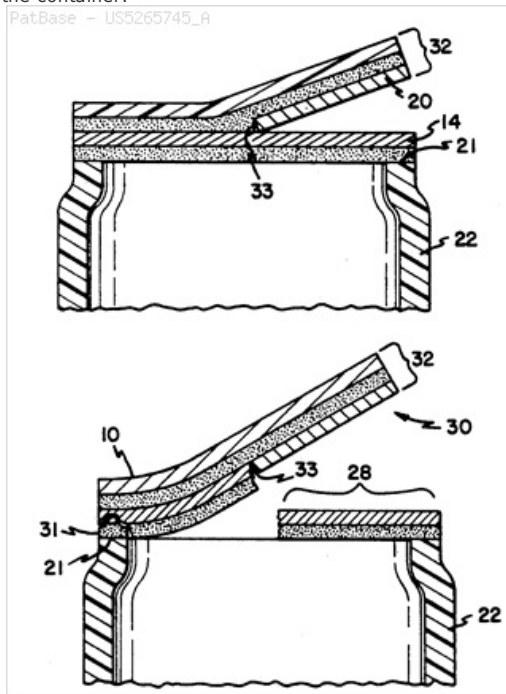
Cited documents: US5004111 A, US4961986 A, US4960216 A, US4934544 A, US4684554 A, US4666052 A,

Forward Citations: WO9702997, WO9630279, WO15119988, WO15009658, WO14039364, WO13137590, WO08117866,

WO08058170, WO08058170, WO06108853, USD826054, USD778157, USD776525, USD757537, USD726537, US9994357, US9834339, US9833979, US9815589, US9676513, US9624008, US9533805, US9440768, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8906185, US8844597, US8746484, US8715825, US8703265, US8650839, US8522990, US8308003, US8251236, US8201385, US8100277, US8080118, US8057896, US7850923, US7850033, US7832580, US7798359, US7780024, US7766178, US7703625, US7648764, US7644902, US6974045, US6902075, US6790508, US5887747, US5857582, US5702015, US5641084, US5564603, US5560989, US5513781, US2018079576, US2017007051, US2014203048, US2013020324, US2011138742, US2011089177, US2010221483, US2010193463, US2010116410, US2010047552, US2009057326, US2008233424, US2008233339, US2008231922, US2008169286, US2008135559, US2008121605, US2008110896, US2008073308, US2007007229, US2006289542, US2006151415, US2006054584, US2005263524, US2005208242, US2005150891, US2004238477, US2003196418, US2003108714, US10604315, US10556732, US10384840, US10264903, US10259626, US10196174, US10150590, US10150589, US10005598, US10000310, TWI409058, KR102110357, KR101295219, JP6425626, JP2017013840, JP2012522694, JP2009161235, JP2009161231, FR3015925, FR2769867, FR2767313, FR2744986, EP3102499, EP3102499, EP3022121, EP2892819, EP2892819, EP2230190, EP2223798, EP1789260, EP0982235, EP0982235, EP0911146, EP0911146, EP0905039, EP0790193, CN105636875, CN104755388, CN104755388, AU2013313129, AT500343, AT500343,

Abstract:

A multilayer innerseal having a grip tab extending across the innerseal. Force applied to the grip tab is concentrated at the base of the grip tab and promotes a complete failure of the innerseal. In use, a substantial portion of the original innerseal remains adhered to the container to providing evidence of tampering and to frustrate efforts to reseal the container.



11) Family number: 57403185 (US2014263330A)

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Title: INNER SEAL WITH AN OVERLAPPING PARTIAL TAB LAYER
Priority: US20130788066P 20130315 US20140208081 20140313 CN201410182744 20140314
EP20140160374 20140317 EP20160152444 20140317 US20160254765 20160901

Family:	Publication number	Publication date	Application number	Application date
	AU2014201423 AA	20141002	AU20140201423	20140312
	AU2014201423 BB	20170622	AU20140201423	20140312
	BR102014006103 A2	20160705	BR20141006103	20140314
	CA2846021 AA	20140915	CA20142846021	20140311
	CN104044805 A	20140917	CN201410182744	20140314
	CN104044805 B	20170825	CN201410182744	20140314
	CN107554965 A	20180109	CN201710700540	20140314
	DE602014001069 D1	20160428	DE201460001069T	20140317
	DE602014020206 D1	20180222	DE201460020206T	20140317
	EP2778091 A1	20140917	EP20140160374	20140317
	EP2778091 B1	20160316	EP20140160374	20140317
	EP3028956 A1	20160608	EP20160152444	20140317
	EP3028956 B1	20180117	EP20160152444	20140317
	ES2568221 T3	20160428	ES20140160374T	20140317
	IN01371CH2014 A	20160701	IN2014CH01371	20140314
	KR20140113572 A	20140924	KR20140030635	20140314
	MX2014003286 A1	20150520	MX20140003286	20140314
	MX357031 B	20180625	MX20140003286	20140314
	PL2778091 T3	20160729	PL20140160374T	20140317
	RU2014109687 A	20150920	RU20140109687	20140313

TR201604434 T4	20160421	TR20160004434T	20140317
TW201505920 A	20150216	TW20140108985	20140313
TWI614185 B	20180211	TW20140108985	20140313
US2014263330 AA	20140918	US20140208081	20140313
US2016368658 AA	20161222	US20160254765	20160901
US9440768 BB	20160913	US20140208081	20140313
US10000310 BB	20180619	US20160254765	20160901

Probable Assignee: SELIG SEALING PRODUCTS INC

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

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

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

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

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JONES HELEN MM; GILL JENNINGS AND EVERY LLP; DE ELZABURU ALBERTO; UGUR GUERSAD YALCINER; FITCH EVEN TABIN AND FLANNERY LLP

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

International class (IPC 8-9): A22B B32B27/08 B32B27/34 B32B27/36 B32B3/08 B32B7/10 B65D17/50 B65D39/02 B65D41/50 B65D47/36 B65D51/20 B65D51/22 B65D53/00 B65D53/04 (Advanced/Invention)

CPC: B65D51/20 B65D2251/0015 B65D2251/0093 B65D2577/2058 B65D17/50 B65D17/501 B65D2251/0009 B65D2251/0028 B65D2251/0071 B65D2251/009 B65D2517/0013 B65D2517/0086

US class: 1/1 220/270

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Cited documents: WO9905041 A1, WO9905041 A1, WO15119988 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08118569 A2, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO06108853 A1, WO06108853 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO06066450 A1, USRE39790 E, USRE33893 E, US9440765 BB, US9227755 BB, US9221579 BB, US9102438 BB, US9028963 BB, US8906185 BB, US8348082 BB, US8329288 BB, US8308003 BB, US8129009 BB, US8057896 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6627273 BB, US6602309 BB, US6548302 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6290801 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6082566 A, US5975304 A, US5915577 A, US5871112 A, US5860544 A, US5702015 A, US5669521 A, US5618618 A, US5615789 A, US5601200 A, US5598940 A, US5560989 A, US5514442 A, US5513781 A, US5433992 A, US5265745 A, US5226281 A, US5217790 A, US5197618 A, US5178967 A, US5149386 A, US5131556 A, US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5053457 A, US5015318 A, US5004111 A, US4961986 A, US4960216 A, US4938390 A, US4889731 A, US4867881 A, US4863061 A, US4837061 A, US4818577 A, US4811856 A, US4801647 A, US4781294 A, US4770325 A, US4741791 A, US4735335 A, US4666052 A, US4636273 A, US4596338 A, US4588099 A, US4582735 A, US4206165 A, US4133796 A, US3990603 A, US3964670 A, US3556816 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2014224800 AA, US2014186589 AA, US2014061196 AA, US2014001185 AA, US2013177263 AA, US2013121623 AA, US2013020324 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012067896 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008145581 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006124577 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005218143 AA, US2005208244 AA, US2005208242 AA, US2005048307 AA, US2004109963 AA, US2004043238 AA, US2003196418 AA, US2003168423 AA, US2003087057 AA, US2002068140 AA, US2001031348 AA, TW201240888 A, TW201238850 A, MXPA05002905, MX290002905, MX2010001867 A1, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP9110077 A2, GB2501967 A1, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP2014461 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1445209, EP1199253 B1, EP1199253 A2, EP1075921 A2, EP0915026 A1, EP0905039 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0803445, EP0717710 B1, EP0717710, EP0706473 B1, EP0706473, EP0668221 A1,

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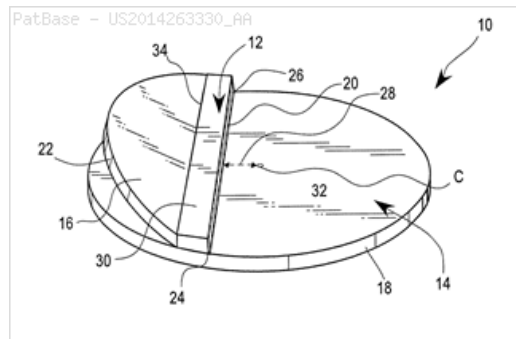
DE102006030118 B3

CN1301289 A, CN103619720 A, CN101111437 A, CA2297840 AA, CA2203744 AA, CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1, AT11738,

Forward Citations: US10654636, US10604315, US10556732, CN107021290,

Abstract:

A pull-tab sealing member for a container containing an upper laminate defining a circular segment and forming a pull-tab bonded to a lower laminate capable of being heat sealed to a container's mouth or opening. The upper laminate defines the pull tab wholly within a perimeter or circumference of the seal, but the upper laminate does not extend the full width of the sealing member in order to define the gripping tab.



12) Family number: 57403186 (US2014263323A)

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Title: INNER SEAL WITH A SUB TAB LAYER

Priority: US20130791788P 20130315 US20140208106 20140313 US20140208122 20140313
 CN201410190467 20140314 EP20140160367 20140317 EP20140160375 20140317
 EP20150166835 20140317 US20150681773 20150408 US20150681649 20150408
 EP20150166835 20150507 US20160254705 20160901 US20170598780 20170518
 US20180926122 20180320 US20180197753 20181121

Family:	Publication number	Publication date	Application number	Application date
	AU2014201416 AA	20141002	AU20140201416	20140312
	AU2014201416 BB	20170907	AU20140201416	20140312
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	BR102014006102 A2	20160913	BR20141006102	20140314
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	CA2846164 AA	20140915	CA20142846164	20140311
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	CN104044807 A	20140917	CN201410208166	20140314
	CN104044807 B	20180427	CN201410208166	20140314
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	CN107512480 B	20190618	CN201710652612	20140314
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	DE602014000026 D1	20150702	DE201460000026T	20140317
	DE602014028126 D1	20180802	DE201460028126T	20140317
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	EP2778090 B1	20150513	EP20140160367	20140317
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	EP2933204 A1	20151021	EP20150166835	20140317
	EP2933204 B1	20180704	EP20150166835	20140317
	EP3378799 A1	20180926	EP20180171446	20140317
	IN01355CH2014 A	20160701	IN2014CH01355	20140314
	IN01357CH2014 A	20160701	IN2014CH01357	20140314
	KR20140113509 A	20140924	KR20140030180	20140314
	KR20140113524 A	20140924	KR20140030230	20140314
	MX2014003284 A1	20150304	MX20140003284	20140314
	MX2014003285 A1	20150521	MX20140003285	20140314
	MX357029 B	20180625	MX20140003284	20140314
	MX357030 B	20180625	MX20140003285	20140314
	PL2778090 T3	20150831	PL20140160367T	20140317
	PL2778092 T3	20150831	PL20140160375T	20140317
	RU2014109688 A	20150920	RU20140109688	20140313
	RU2014109690 A	20150920	RU20140109690	20140313
	TW201502027 A	20150116	TW20140108984	20140313
	TW201505921 A	20150216	TW20140108987	20140313
	TWI594931 B	20170811	TW20140108984	20140313
	US2014263323 AA	20140918	US20140208122	20140313
	US2014263331 AA	20140918	US20140208106	20140313
	US2015225116 AA	20150813	US20150681649	20150408
	US2015225117 AA	20150813	US20150681773	20150408
	US2016368657 AA	20161222	US20160254705	20160901
	US2017253373 AA	20170907	US20170598780	20170518
	US2018208357 AA	20180726	US20180926122	20180320
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	US9221579 BB	20151229	US20150681649	20150408
	US9227755 BB	20160105	US20150681773	20150408
	US9440765 BB	20160913	US20140208106	20140313

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US9994357 BB	20180612	US20160254705	20160901
US10150589 BB	20181211	US20170598780	20170518
US10150590 BB	20181211	US20180926122	20180320

Probable Assignee: SELIG SEALING PRODUCTS INC

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

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

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

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Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JONES HELEN MM; GILL JENNINGS AND EVERY LLP; FITCH EVEN TABIN AND FLANNERY LLP

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

International class (IPC 8-9): B32B15/08 B32B15/085 B32B15/09 B32B15/14 B32B15/20 B32B27/02 B32B27/08 B32B27/32 B32B27/34 B32B27/36 B32B3/08 B32B33/00 B32B5/18 B32B7/04 B32B7/12 B65D B65D17/00 B65D17/50 B65D39/02 B65D43/02 B65D47/36 B65D51/00 B65D51/20 B65D51/22 B65D53/00 B65D53/04 B65D53/08 C09K3/10 (Advanced/Invention)

CPC: B32B5/245 B32B7/12 B32B15/046 B32B15/08 B32B15/085 B32B15/09 B32B15/14 B32B15/20 B32B27/065 B32B27/08 B32B27/12 B32B27/32 B32B27/36 B32B33/00 B32B2262/0261 B32B2266/025 B32B2266/0264 B32B2435/02 B65D53/04 Y10T428/24752 B65D51/20 B65D2251/0015 B65D2251/0093 B65D2577/2058 Y10T428/12486 Y10T428/1486 B65D17/50 B65D17/501 B65D43/02 B65D51/005 B65D2251/0009 B65D2251/0018 B65D2251/0028 B65D2251/0071 B65D2251/009 B65D2517/0013 B65D2517/0082 B65D55/06 B65D77/2044

US class: 1/1 220/258.2 220/258.3 220/270

[Classification Explorer](#)

Cited documents: WO9905041 A1, WO15119988 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO12072029 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08118569 A2, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO06108853 A1, WO06108853 A1, WO06073777 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO05009868 A1, WO0066450 A1, WO00066450, USRE39790 E, USRE33893 E, US9676513 BB, US9440765 BB, US9227755 BB, US9221579 BB, US9102438 BB, US9028963 BB, US8906185 BB, US8348082 BB, US8329288 BB, US8308003 BB, US8129009 BB, US8057896 BB, US7850033 BB, US7850033, US7838109 BB, US7819266 BB, US7798359 BA, US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6627273 BB, US6602309 BB, US6548302 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6290801 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6082566 A, US5975304 A, US5915577 A, US5871112 A, US5860544 A, US5702015 A, US5669521 A, US5618618 A, US5615789 A, US5601200 A, US5598940 A, US5560989 A, US5514442 A, US5513781 A, US5433992 A, US5265745 A, US5226281 A, US5217790 A, US5197618 A, US5178967 A, US5149386 A, US5131556 A, US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5053457 A, US5015318 A, US5004111 A, US4961986 A, US4960216 A, US4938390 A, US4889731 A, US4867881 A, US4863061 A, US4837061 A, US4818577 A, US4811856 A, US4801647 A, US4781294 A, US4770325 A, US4741791 A, US4735335 A, US4693390 A, US4666052 A, US4636273 A, US4596338 A, US4588099 A, US4582735 A, US4206165 A, US4133796 A, US3990603 A, US3964670 A, US3556816 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2017253373 AA, US2014224800 AA, US2014186589 AA, US2014061196 AA, US2014001185 AA, US2013177263 AA, US2013121623 AA, US2013020324 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012067896 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008145581 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006124577 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005218143 AA, US2005208244 AA, US2005048307 AA, US2004213983 AA, US2004109963 AA, US2004043238 AA, US2003196418 AA, US2003168423 AA, US2003087057 AA, US2002068140 AA, US2001031348 AA, TW201217237 A, MXPA05002905, MX290002905, MX2010001867 A1, MX1001867 A, MX05002905 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, KR10071107 B1, JPEP1075921, JP9110077 A2, JP2003104424 A2, GB2501967 A1, GB2353986 A1, GB1216991 A, FR2943322 A1, FR2916157 A1, EP2599735 A1, EP2292524 A1, EP2230190 A1, EP2014461 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1445209, EP1199253 B1, EP1199253 A2, EP075921 A2, EP0915026 A1, EP0905039 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0803445, EP0717710 B1, EP0717710, EP0706473 B1, EP0706473, EP0668221 A1, EP0135431 A1, DE20200900245 U,

DE202009000245 U1

DE202009000245 U, DE10204281 A1,

DE102007022935 B4

DE102007022935,

DE102006030118 B3

DE10200603011, CN200974670 Y, CN1642820 A, CN1321041 C, CN1301289 A, CN101687582 A, CN101160211 B, CN101160211 A, CA2203744 AA, CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1, AT11738,

Forward Citations: WO18081419, WO18071997, WO17217982, WO16149297, US9994357, US2018118439, US2017259978, US2016368657, US10604315, US10556732, US10196174, US10150590, US10150589, US10124766,

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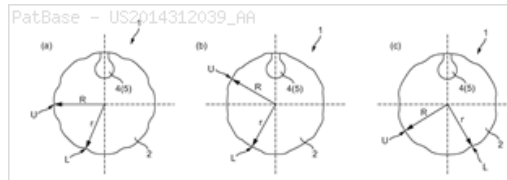
DE102009016312 B3

DE102009016312 B3

Forward Citations: US2018257838, US10414524,

Abstract:

The present invention relates to a sealable element (1) for sealing the rim (21) of receptacles (20), the element (1) comprising at least a backing layer (2) made from a deformable material, and a sealable membrane (3) detachably connected to the backing layer (2), wherein the membrane (3) comprises an additional or integral opening means (4), wherein at least the membrane (3) has a contour with a radius varying between a lower radiusvalue (L) and an upper radiusvalue (U), wherein the ratio between the lower radiusvalue (L) and the upper radiusvalue (U) is defined by the equation $0.9 \leq L/U \leq 0.99$, preferably $0.95 \leq L/U \leq 0.97$. The invention further relates to a cap (10) comprising said sealable element (1) and to a receptacle (20) comprising said cap (10) being removably attached onto an opening (O).



14) Family number: 54161243 (US2015210449A)

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Title: CLOSURE CAP WITH A MULTILAYER SEAL DISK FOR RECEPTACLES

Priority: EP20110195022 201111221 EP20120806033 20121217 WO2012EP75842 20121217

Family:	Publication number	Publication date	Application number	Application date
	AU2012357895 AA	20130627	AU20120357895	20121217
	AU2012357895 BB	20170323	AU20120357895	20121217
	CA2858894 AA	20140610	CA20122858894	20121217
	CN104039660 A	20140910	CN201280063558	20121217
	CN104039660 B	20160413	CN201280063558	20121217
	EP2607260 A1	20130626	EP20110195022	20111221
	EP2794418 A1	20141029	EP20120806033	20121217
	EP2794418 B1	20170222	EP20120806033	20121217
	IN05123DN2014 A	20150327	IN2014DN05123	20140623
	JP2015506315 T2	20150302	JP20140547903T	20121217
	MX2014006743 A1	20150313	MX20140006743	20121217
	PH2014501146 A	20140728	PH20140501146	20140522
	RU2014129862 A	20160210	RU20140129862	20121217
	US2015210449 AA	20150730	US20120367641	20121217
	US9688448 BB	20170627	US20120367641	20121217
	WO13092518 A1	20130627	WO2012EP75842	20121217

Probable Assignee: NESTEC SA

Assignee(s):(std): NESTEC SA ; NESTEC SA

Assignee(s): NESTEC S A ; LAN XIAOFENG ; THIVOLET RAPHAEL ; HENTZEL STEPHANE ; NESTEC SAAVENUE NESTLE 55CH-1800VEVEYCH ; FABOZZI THIERRY ; ABEGGLEN DANIEL ; CONNES BERENICE ; DEMAUREX GILLES ; DOMANSKY PHILIPPE

Inventor(s):(std): ABEGGLEN DANIEL ; LAN XIAOFENG ; DOMANSKY PHILIPPE ; THIVOLET RAPHAEL ; CONNES BERENICE ; DEMAUREX GILLES ; HENTZEL STEPHANE ; FABOZZI THIERRY ; DOMANSKY PHILIPPE ; FABOZZI THIERRY JEAN ROBERT ; RAPHAEL THIVOLET ; DANIEL ABEGGLEN ; PHILIPPE DOMANSKY ; XIAOFENG LAN ; XFFFD NICE CONNES BAND XFFFD R AND ; XFFFD PHANE HENTZEL ST AND ; THIERRY FABOZZI ; GILLES DEMAUREX ; CONNES B R NICE

Inventor(s): THIERRY JEAN ROBERT FABOZZI ; HENTZEL ST PHANE ; STEPHANE HENTZEL ; BERENICE CONNES ; HENTZEL STEPHANECH ; FABOZZI THIERRYCH ; DEMAUREX GILLESGB ; DOMANSKY PHILIPPECH ; THIVOLET RAPHAELCN ; ABEGGLEN DANIELCH ; CONNES BERENICECH ; LAN XIAOFENGCH ; CONNES BRNICE

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ROSOLEN DELARUE KATELL; K AND L GATES LLP

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

International class (IPC 8-9): B65D41/04 B65D51/20 B65D53/00 B65D53/04 B67B3/00 (Advanced/Invention); B67B3/00 (Advanced/Non-invention)

CPC: B67B3/00 B65D51/20 B65D2251/0015 B65D2251/0093 B65D2577/205 B65D2577/2058 Y10T29/49826

US class: 215/347 29/428 53/421

JP class F-Term: 3E084 3E084/AA12 3E084/AA32 3E084/AB07 3E084/BA02 3E084/BA09 3E084/CA01 3E084/CC03 3E084/CC08 3E084/DA01 3E084/DB12 3E084/DC03 3E084/FA09 3E084/FB01 3E084/GA04 3E084/GB04 3E084/HA10 3E084/HC08 3E084/HD01 3E084/LA17

JP class F-Index: B65D41/04/B B65D41/04/200 B65D53/00/A B65D53/00/100 B65D53/04/A B65D53/04/100

[Classification Explorer](#)

Cited documents: WO12172029 A1, US5637396 A, US5637396 A, US5514442 A, US5514442 A, US5176271 A, US2012103988 AA, US2009078671 AA, US2008041810 AA, US2008041810 AA, US2007007229 AA, US2007007229 AA,

JP5162765 A2, JP3501599 T2, JP2010540354 T2, JP1144357 U1, EP2045194 B1, EP2045194 B1, EP1462381 B2, EP1462381 A1, EP1462381 A1, EP0697345 A2, EP0697345 A2,

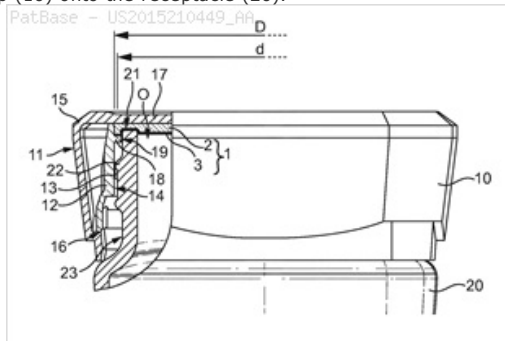
DE102009016312 B3

DE102009016312 B3

CN1646388 A, CN101111437 A,

Abstract:

The invention is directed to a cap (10) for receptacles (20) such as e.g. glass jars, comprising a cap base body (11) with a fixing means (13) for enabling the cap (10) to be removably attached on the receptacles (20), a backing layer (2) made from a deformable material, and a sealable, preferably heat-sealable membrane (3) not being glued to the backing layer (2), wherein both the backing layer (2) and the membrane (3) are retained inside the cap (10) via a retention portion (18) extending from an inner side wall (14) of the cap (10). The invention is further directed to a receptacle (20) having said cap (10) for closing it, and is also directed to a method for providing the cap (10) with a sealing element (1) and for providing said cap (10) onto the receptacle (20).



15) Family number: 42759249 (US2010193463A)

© PatBase

Title: SEAL FOR A CONTAINER

Priority: EP20070110921 20070622 WO2008US67445 20080619

Family:

Publication number	Publication date	Application number	Application date
AT444849 E	20091015	AT20070110921T	20070622
AU2008268600 AA	20081231	AU20080268600	20080619
AU2008268600 BB	20120705	AU20080268600	20080619
BRPI0811672 A2	20181226	BR2008PI11672	20080619
BRPI0811672 B1	20190618	BR2008PI11672	20080619
BRPI0811672 B8	20190709	BR2008PI11672	20080619
CA2691653 AA	20081231	CA20082691653	20080619
CA2691653 C	20150811	CA20082691653	20080619
DE602007002705 D1	20091119	DE200760002705T	20070622
DK2014461 T3	20100111	DK20070110921T	20070622
EP2014461 A1	20090114	EP20070110921	20070622
EP2014461 B1	20091007	EP20070110921	20070622
ES2334275 T3	20100308	ES20070110921T	20070622
KR101488007 B1	20150204	KR20107000216	20080619
KR20100040286 A	20100419	KR20107000216	20080619
MX2009014179 A1	20100304	MX20090014179	20080619
MY164297 A	20171215	MY20090005521	20080619
NZ582523 A	20121221	NZ20080582523	20080619
PL2014461 T3	20100331	PL20070110921T	20070622
PT2014461 T	20100104	PT20070110921T	20070622
SI2014461 T1	20100226	SI20070030101T	20070622
US2010193463 AA	20100805	US20080665239	20080619
US8308003 BB	20121113	US20080665239	20080619
WO90002795 A1	20081231	WO2008US67445	20080619

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): MCLEAN ANDREW FENWICK ; O BRIEN DAVID JOHN ; SACHS VICTOR ; SELIG SEALING PRODUCTS INC ; ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP

Inventor(s):(std): ANDREW FENWICK MCLEAN ; DAVID JOHN O BRIEN ; MCLEAN ANDREW FENWICK ; O BRIEN DAVID JOHN ; SACHS VICTOR ; VICTOR SACHS ; BRIEN DAVID JOHN O

Inventor(s): O'BRIEN DAVID JOHN

Agent(s): SPRUSON AND FERGUSON; MACRAE AND CO; JONES HELEN M M; FITCH EVEN TABIN AND FLANNERY; FITCH EVEN TABIN AND FLANNERY LLP; HAUPTMAN BENJAMIN J

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 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): B29C47/02 B32B15/08 B32B27/08 B32B3/26 B32B37/12 B32B5/22 B32B7/04 B32B7/12 B65B51/10 B65D41/04 B65D41/16 B65D51/20 B65D53/00 B65D53/04 B65D53/06 B67B3/00 (Advanced/Invention);

B32B15/08 B32B7/04 B65D41/04 (Advanced/Non-invention);
B29C47/02 B32B15/00 B32B15/08 B32B3/26 B32B37/12 B32B7/04 B32B7/12 B65B51/10 B65D41/02
B65D41/04 B65D51/00 B65D51/18 B65D53/00 B67B3/00 (Core/Invention)

International class (IPC 1-7): B32B7/04

CPC: B32B5/32 B32B15/043 B32B15/046 B32B15/20 B32B27/065 B32B27/36 B32B2266/025 B32B2435/00
Y10T156/10 Y10T428/24843 Y10T428/249983

European class: B32B15/08

US class: 156/244.27 156/244.270S 156/60 156/60S 215/232 215/329 215/341 215/341S 215/347 428/200 428/200S
428/317.3 428/317.300S 53/478 53/478S

[Classification Explorer](#)

Cited documents: WO11039067 A1, WO10115811 A1, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO06108853 A1, WO06021291 A1, WO06018556 A1, WO03066465 A1, WO03066465 A1, WO03066465 A1, USRE39790 E, US7838109 BB, US7832580 BB, US7819266 BB, US7798359 BA, US7740927 BB, US7713605 BB, US7568586 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6602309 BB, US6544613 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6302321 BA, US6277478 BA, US6194042 BA, US6139931 A, US6131754 A, US6082566 A, US5975304 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5381914 A, US5265745 A, US5226281 A, US5197618 A, US5178967 A, US5160767 A, US5149386 A, US5098495 A, US5097495 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US4961986 A, US4961986, US4960216 A, US4892209 A, US4837061 A, US4818577 A, US4741791 A, US4650082 A, US4206165 A, US2011138742 AA, US2011091715 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010016410 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233339 AA, US2008169286 AA, US2008156443 AA, US2008103262 AA, US2008026171 AA, US2007298273 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005208242 AA, US2005048307 AA, US2004249046 AA, US2004109963 AA, US2003196418 AA, US2002068140 AA, TW194965, MX5002905, MX5002002905 A1, MX2010001867, MX1001867 A, KR19980031769 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP2004315035 A2, JP2000255621 A2, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1834893 A1, EP1445209 B1, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 A1, EP0668221 A1, DE202009000245 U, DE10204281 A1,

DE102007022935 B4

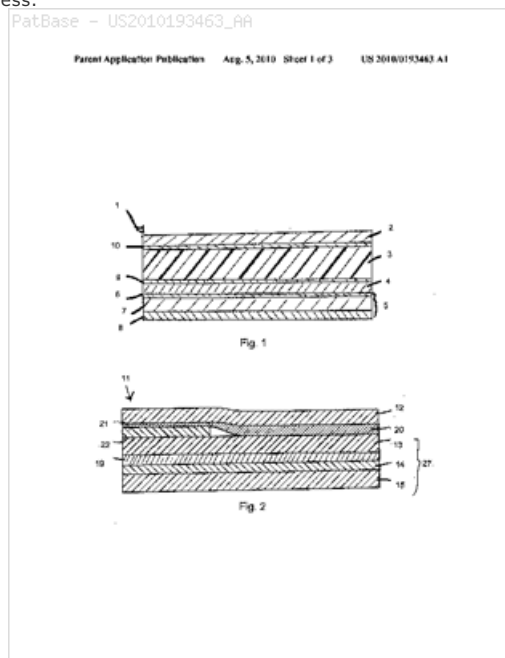
DE102006030118 B3

BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations: WO19035707, WO14039365, WO12177895, WO09029247, WO09029247, US9994357, US9834339, US9815589, US9808607, US9676513, US9624008, US9533805, US9440768, US9440765, US9302837, US9302796, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8906185, US8746484, US8201385, US2017259978, US2016325896, US2014284331, US2014001185, US2013036715, US2013020324, US2012228297, US10604315, US10556732, US10196174, US10150590, US10150589, US10005598, US10000310, KR101879659, KR101875176, KR101807647, KR101370239, EP2892819, EP2892819, EP2892818, EP2723649, EP2565030, EP2565030, EP2522504, EP2522504, EP2183106, CN103826986, CN103826986, AU2012272897,

Abstract:

A seal for a container for comestibles, especially portable liquids, and in particular for use for sealing polyester containers such as bottles, which is suitable for passage through a PET recycling process, comprises a metal foil layer, a foam layer and a plastics film layer as well as a heat sealable layer below the foil. The foam is selected for its density and thickness so is to confer upon the seal a high buoyancy. The adhesion a between the foam and the foil is increased compared to currently available products, in order to prevent de-lamination between the foil and the foam during the recycling process.

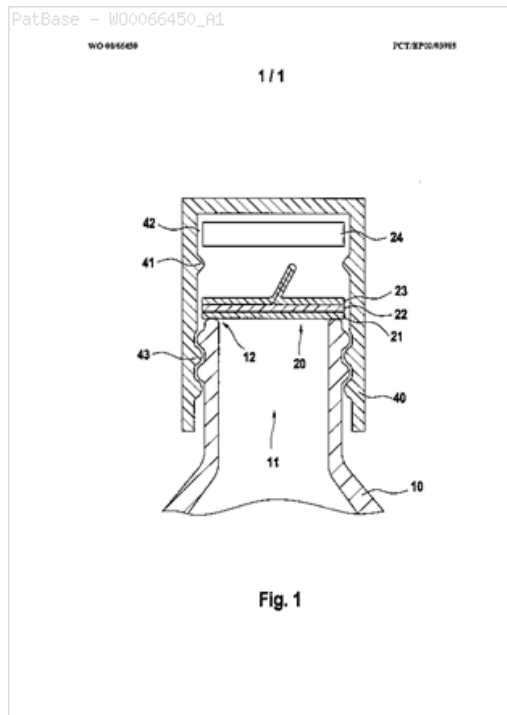


Title: SCREW CAP WITH SEALING DISK.**Priority:** DE19991020572 19990504 DE20005003652 20000504 WO2000EP03985 20000504

Family:	Publication number	Publication date	Application number	Application date
	AT249372 E	20030915	AT20000927132T	20000504
	AU200045611 A1	20001117	AU20000045611	20000504
	AU200045611 A5	20001117	AU20000045611	20000504
	AU765405 B2	20030918	AU20000045611	20000504
	BRPI0010252 A	20020108	BR2000PI10252	20000504
	CA2377839 AA	20011220	CA20002377839	20000504
	CN1349468 A	20020515	CN20008007143	20000504
	CZ20013864 A3	20020814	CZ20010003864	20000504
	DE19920572 A1	20001123	DE19991020572	19990504
	DE19920572 C2	20020613	DE19991020572	19990504
	DE50003652 D1	20031016	DE20005003652	20000504
	EA003103 B1	20030227	EA20010001183	20000504
	EA200101183 A1	20020627	EA20010001183	20000504
	EE200100570 A	20021216	EE20010000570	20000504
	EP1181211 A1	20020227	EP20000927132	20000504
	EP1181211 B1	20030910	EP20000927132	20000504
	HR20010806 A2	20021231	HR20010000806	20011030
	HU0200952 AB	20020729	HU20020000952	20000504
	IL146122 A0	20020725	IL20000146122	20000504
	JP2002543007 T2	20021217	JP20000615295T	20000504
	MXPA01010944 A1	20021107	MX2001PA10944	20000504
	NO20015335 A	20011031	NO20010005335	20011031
	NO20015335 A0	20011031	NO20010005335	20011031
	NO20015335 L	20011031	NO20010005335	20011031
	NZ514931 A	20030328	NZ20000514931	20000504
	PL350613 A1	20030127	PL20000350613	20000504
	SK200101581 A5	20020404	SK20010001581	20000504
	WO0066450 A1	20001109	WO2000EP03985	20000504
	YU75901 A	20030228	YU20010000759	20000504
	ZA200109067 A	20030129	ZA20010009067	20011102

Probable Assignee: ALFELDER KUNSTSTOFFW MEYER H**Assignee(s):(std):** ALFELDER KUNSTSTOFFW MEYER H ; TROMBACH HORST**Assignee(s):** ALFELDER KUNSTSTOFFWERKE HERMMEYER GMBH ; ALFELDER KUNSTSTOFFWERKE HERM ; ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH**Inventor(s):(std):** HORST TROMBACH ; TROMBACH HORST**Agent(s):** FB RICE PTY LTD; RIDOUT AND MAYBEE LLP**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM 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 MA 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 TZ UA UG US UZ VN YU ZA ZW**International class (IPC 8-9):** B65D41/04 B65D51/20 B65D53/00 B65D53/04 B65D77/20 (Advanced/Invention); B65D53/00 (Advanced/Non-invention); B65D41/04 B65D51/18 B65D53/00 B65D77/10 (Core/Invention)**International class (IPC 1-7):** B65D41/04 B65D51/20 B65D53/00 B65D53/04 B65D77/20**CPC:** B65D41/045 B65D51/20 B65D2251/0015 B65D2251/0093**European class:** B65D41/04D2 B65D51/20 L65D251/00Y2D L65D251/00Y6M**JP class F-Term:** 3E084 3E084/AA04 3E084/AA12 3E084/AB05 3E084/AB07 3E084/BA01 3E084/CA01 3E084/DA01 3E084/DB12 3E084/FA09 3E084/FB01 3E084/GA04 3E084/GB04 3E084/HA01 3E084/HB05 3E084/HC08 3E084/HD01**JP class F-Index:** B65D41/04/Z B65D53/00/A B65D53/00/100 B65D53/04/Z[Classification Explorer](#)**Cited documents:** US4934544 A, FR2463468 A1, EP0717710 A1, EP0697345 A2, EP0534949 B1, EP0534949 A1, EP0408217 A1, EP0395660 B1, EP0395660 A1, DE9410934 U1, DE4424666 A1, DE3920324 A1,**Forward Citations:** WO13150137, WO10115811, US9994357, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9156584, US9102438, US9028963, US8906185, US8852725, US8746484, US8715825, US8703265, US8522990, US8308003, US8201385, US8057896, US2014001185, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10005598, US10000310, EP2834162, EP1462381, EP1462381, DE102013015581, DE102012006934, DE102009016312, DE102007014084, CN104169185, CN104169185,**Abstract:**

The invention relates to a cap (40) with sealing disk which can be positioned on, and notably screwed onto, the opening of a container (10). The sealing disk consists of several layers. The upper layers (24) are designed to remain in the cap when the container is opened while the lower layers (21, 22, 23) are sealed to the opening of the container. The upper layers can be used to reclose the container and are not glued in the screw cap. When the container is opened for the first time the upper layers are lifted vertically upwards by the lower layers, which prevents damage to the top side of said lower layers.



17) Family number: 52078307 (US2014158691A)

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Title: LAMINATE STRUCTURE TO STABILIZE A DIMENSIONALLY UNSTABLE LAYER

Priority: US20110468257P 20110328 US20120008363 20120328 WO2012US30962 20120328

Family:

Publication number	Publication date	Application number	Application date
US2014158691 AA	20140612	US20120008363	20120328
US9834339 BB	20171205	US20120008363	20120328
WO12135353 A1	20121004	WO2012US30962	20120328

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): BRUCKER STEVEN A ; CLARK ERIC ; SELIG SEALING PRODUCTS INC

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

Inventor(s):(std): BRUCKER STEVEN A ; CLARK ERIC

Agent(s): 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 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 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

International class (IPC 8-9): B32B15/00 B32B15/08 B32B15/12 B32B27/00 B32B27/10 B32B27/36 B32B29/00 B32B7/02 B32B9/00 B65D41/00 (Advanced/Invention)

CPC: B65D41/005 B32B7/02 B32B29/00 B32B27/00 B32B15/00 B32B15/08 B32B15/12 B32B27/10 B32B27/36 B32B29/002 B32B2307/31 B32B2307/734 B32B2435/02 B32B2439/00 Y10T428/2495 Y10T428/24967 Y10T428/2817

European class: B32B15/08 B32B15/12 B32B27/10 B32B27/32 B32B27/36 B32B29/00B L32B307/310 L32B307/734 L32B435/02 L32B439/00

US class: 220/359.4 428/213 428/215 428/219 428/347

[Classification Explorer](#)

Cited documents: WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO06021291 A1, WO06018556 A1, WO0066450 A1, USRE39790 E, USRE33893 E, US8348082 BB, US8329288 BB, US8057896 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6622723 BB, US6602309 BB, US6468708 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6309504 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6082566 A, US5975304 A, US5915577 A, US5871112 A, US5860544 A, US5702015 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5514442 A, US5513781 A, US5433992 A, US5265745 A, US5197618 A, US5178967 A, US5149386 A, US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US4961986 A, US4960216 A, US4837061 A, US4770325 A, US4741791 A, US4735335 A, US4254173 A, US4206165 A, US3990603 A, US3302818 A, US3292828 A, US3235165 A, US2012241449 AA, US2012103988 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010201082 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA,

US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2009057326 AA, US2009004505 AA, US2008233424 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007087212 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005048307 AA, US2004109963 AA, US2003196418 AA, US2003168423 AA, US2002068140 AA, MXPA05002905, MX5002002905 A1, MX2010001867 A1, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1,

DE202009000245 U1

DE10204281 A1,

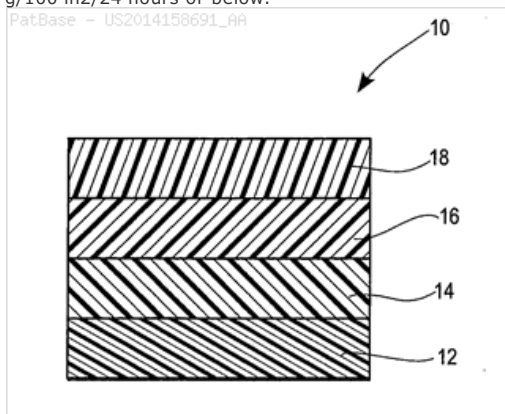
DE102007022935 B4

DE102006030118 B3

CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Abstract:

A seal laminate for closing a mouth of a container is provided. The seal laminate includes a heat seal layer, a structural base support layer and upper and lower dimensionally stable layers. The heat seal layer bonds the laminate to a rim surrounding the container's mouth. The structural base support layer may be comprised of a pulp, paper, cardboard, chipboard, paperboard, or cellulose based material having a moisture content of about 3 to about 6 percent and is positioned above the heat seal layer. The upper and lower dimensionally stable layers are disposed above and below the structural base support layer and are sized to balance the vertical forces on the structural base support layer upon exposure to about 60 percent or greater relative humidity. The upper and lower dimensionally stable layers have a water vapor transmission rate of about 1.5 g/100 in²/24 hours or below.



18) Family number: 30543328 (WO9602433A1)

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Title: SEALING DISC

Priority: DE19944424666 19940714
EP19950926884 19950714

DE19955005705 19950714

WO1995EP02768 19950714

Family:

Publication number	Publication date	Application number	Application date
AT179137 E	19990515	AT19950926884T	19950714
DE4424666 A1	19960118	DE19944424666	19940714
DE4424666 C2	19970528	DE19944424666	19940714
DE59505705 D1	19990527	DE19955005705	19950714
DK0717710 T3	19991025	DK19950926884T	19950714
EP0717710 A1	19960626	EP19950926884	19950714
EP0717710 B1	19990421	EP19950926884	19950714
ES2131323 T3	19990716	ES19950926884T	19950714
GR3030621 T3	19991029	GR19990401706T	19990630
SI0717710 T1	19990831	SI19950030183T	19950714
WO9602433 A1	19960201	WO1995EP02768	19950714

Probable Assignee: ALFELDER KUNSTSTOFFW MEYER H

Assignee(s):(std): ALFELDER KUNSTSTOFFWERKE HERM ; ALFELDER KUNSTSTOFFW MEYER H

Assignee(s): ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH ; ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH 31061 ALF ; ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH 31061 ALFELD DE

Inventor(s):(std): TROMBACH HORST ; WIENING HEINZ RUDOLF ; TROMBACH HORST DIPL ING

Inventor(s): TROMBACH HORST DIPL ING 28757 BREMEN DE ; TROMBACH HORST D 28757 BREMEN DE ; WIENING HEINZ RUDOLF 31061 ALFELD DE ; WIENING HEINZ RUDOLF D 31061 ALFELD LEINE DE

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE SG SI

International class (IPC) B65D53/04 (Advanced/Invention);

8-9): B65D53/00 (Core/Invention)

International class (IPC) B32B15/08 B32B29/06 B65B7/28 B65D53/04

1-7):

CPC: B65D53/04

European class: B65D53/04

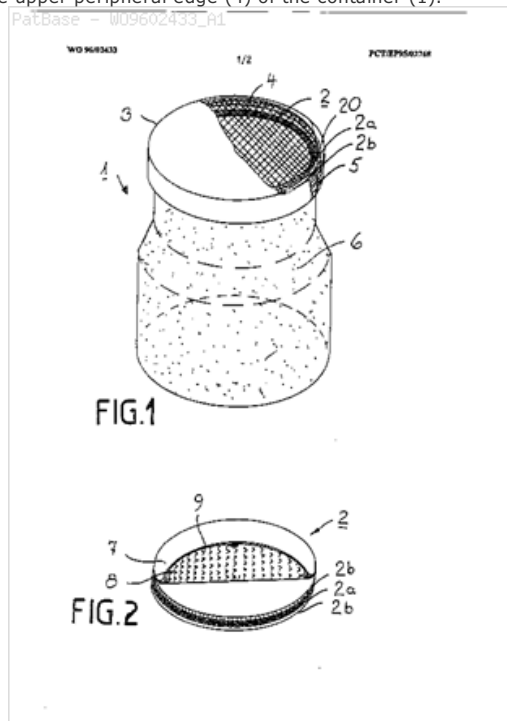
[Classification Explorer](#)

Cited documents: US5057365 A, US4930646 A, US4818577 A, US4774134 A, US4666052 A, US4596338 A, US4588099 A, US4266687 A, GB2142911 A1, GB142911 A, EP0562649 A1, EP0148527 B1, EP0148527 A2, DE1482575 A1, DE1482568 A1,

Forward Citations: WO14179837, WO12152622, WO12079971, WO10115811, WO0066450, US9994357, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440766, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9132947, US9102438, US9028963, US8906185, US8852725, US8746484, US8715825, US8703265, US8522990, US8308003, US8201385, US8057896, US6974045, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10040610, US10005598, US10000310, JP2009533279, EP2994397, EP2651635, EP1837288, EP0835818, EP0835818, DE19920572, DE19920572, DE102011106768, DE102011106768, DE102010054494, DE102009016312, DE102008020472, DE102008020472, DE102007014084, AU765405,

Abstract:

In a sealing disc of at least two layers (2a, 2B) for the closure (3) of containers (1) for odour-sensitive foodstuffs (6), hydrophilic products or the like, especially soluble coffee, one of the layers (2a, 2b) consists of polypropylene and another (2a) of polyethylene, polypropylene or wax. The polypropylene layer (2b) in the closure (3) is held firmly by clamping and there are further layers (7, 8) which, when the container (1) is first opened, are separated and remain on the upper peripheral edge (4) of the container (1).



19) Family number: 53507336 (US2014061197A)

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Title: TABBED INNER SEAL

Priority: US20120604259 20120905

EP20130835250 20130829

WO2013US57255 20130829

Family:

Publication number	Publication date	Application number	Application date
AU2013202349 AA	20140320	AU20130202349	20130403
AU2013202349 BB	20150528	AU20130202349	20130403
BR112015004766 A2	20170704	BR20151104766	20130829
CA2882752 AA	20150220	CA20132882752	20130829
CA2882752 C	20200421	CA20132882752	20130829
CN104755387 A	20150701	CN201380046329	20130829
CN104755387 B	20180102	CN201380046329	20130829
DE602013025603 D1	20171005	DE201360025603T	20130829
EP2892818 A1	20150715	EP20130835250	20130829
EP2892818 A4	20160413	EP20130835250	20130829
EP2892818 B1	20170823	EP20130835250	20130829
ES2641467 T3	20171110	ES20130835250T	20130829
GB201302295 A0	20130327	GB20130002295	20130208
GB2501967 A1	20131113	GB20130002295	20130208
KR101370239 B1	20140305	KR20130014500	20130208
KR20140031824 A	20140313	KR20130128455	20131028
MX2015003011 A1	20150706	MX20150003011	20130829
MX355306 B	20180416	MX20150003011	20130829
US2014061197 AA	20140306	US20120604259	20120905
US9193513 BB	20151124	US20120604259	20120905
WO14039365 A1	20140313	WO2013US57255	20130829

Probable Assignee: SELIG SEALING PRODUCTS INC
Assignee(s):(std): SELIG SEALING PRODUCTS INC ; THORSTENSEN WOLL ROBERT WILLIAM
Assignee(s): GENERAL ELECTRIC CAPITAL US AGENT AS CORP ; SELIG SEALING PRODUCTS INC FORREST
Inventor(s):(std): ROBERT WILLIAM THORSTENSEN WOLL ; THORSTENSEN WOLL ROBERT WILLIAM ; THORSTENSE WOLL ROBERT WILLIAM
Inventor(s): THORSTENSEN WOLL ROBERT WILLIAM BARRIE
Agent(s): PHILLIPS ORMONDE FITZPATRICK; BERESKIN AND PARR LLP SENCRL SRL; JONES HELEN MM; GILL JENNINGS AND EVERY LLP; ELZABURU SLP ELZABURU SLP; 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 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 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

International class (IPC 8-9): B32B15/04 B32B15/08 B32B15/20 B32B27/06 B32B27/08 B32B27/32 B32B27/34 B32B27/36 B32B5/18 B32B7/02 B32B7/04 B32B7/06 B65D17/34 B65D41/00 B65D51/20 B65D53/00 B65D53/04 B65D53/08 B65D55/06 B65D65/24 B65D77/20 (Advanced/Invention); B32B7/04 (Advanced/Non-invention)

CPC: B65D51/20 B65D53/04 B32B15/18 B32B7/02 B32B7/06 B32B15/04 B32B15/20 B32B27/065 B32B27/08 B32B27/32 B32B27/34 B32B27/36 B32B2250/44 B32B2266/025 B32B2307/50 B32B2307/54 B32B2307/748 B32B2435/02 B32B7/05 B65D77/2024 B65D2577/205 B32B7/04

US class: 1/1 220/359.2

[Classification Explorer](#)

Cited documents: WO9905041 A1, WO9009934 A1, WO9009934 A1, WO14039364 A1, WO14039364 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08079730 A1, WO08079730 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO06108853 A1, WO06108853 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO0066450 A1, USRE39790 E, USRE33893 E, US8348082 BB, US8329288 BB, US8057896 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6627273 BB, US6602309 BB, US6458302 BA, US6378715 BA, US6312776 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6082566 A, US5975304 A, US5915577 A, US5871112 A, US5860544 A, US5702015 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5514442 A, US5513781 A, US5433992 A, US5265745 A, US5197618 A, US5178967 A, US5149386 A, US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US4961986 A, US4960216 A, US4960216 A, US4837061 A, US4811856 A, US4801647 A, US4770325 A, US4741791 A, US4735335 A, US4666052 A, US4636273 A, US4596338 A, US4588099 A, US4582735 A, US4206165 A, US4133796 A, US3990603 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2014186589 AA, US2014061196 AA, US2013020324 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012070636 AA, US2012067896 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008169286 AA, US2008156443 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007065609 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006124577 AA, US2006124577 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005287345 AA, US2005208242 AA, US2005048307 AA, US2004109963 AA, US2004043238 AA, US2003168423 AA, US2002068140 AA, MX5002002905 A1, MX1001867 A, KR20100040286 A, KR20090101352 A, KR20000017319 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP6067358 A2, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1199253 B1, EP1075921, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1,

DE202009000245 U1

DE10204281 A1,

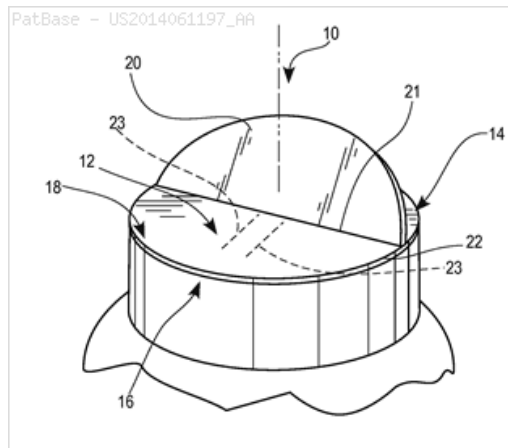
DE102007022935 B4

DE102006030118 B3

Forward Citations: CN1684879 A, CN101160211 A, CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1, WO15119988, US9994357, US9120289, US2018265261, US2018118439, US2014186589, US10604315, US10556732, US10196174, US10150590, US10150589, US10000310, EP3102499, EP3102499, EP2892819, CN105523275,

Abstract:

A pull-tab sealing member for a container is provided combining the advantages of an insulation or foamed polymer layer for effective heat sealing together with an overall laminate structure having a higher internal strength even with the use of the foamed polymer layer. The sealing members herein are capable of withstanding higher removal forces by repositioning an internal stress point within the seal laminate structure.



20) Family number: 14073343 (JP2000191021A)

© PatBase

Title: INNER SEAL
Priority: JP19980371826 19981228
Family:

Publication number	Publication date	Application number	Application date
JP2000191021 A2	20000711	JP19980371826	19981228
JP3904751 B2	20070411	JP19980371826	19981228

Probable Assignee: YOSHINO KOGYOSHO CO LTD
Assignee(s):(std): YOSHINO KOGYOSHO CO LTD
Inventor(s):(std): SUZUKI KAZUO

International class (IPC 8-9): B65D53/04 (Advanced/Invention); B65D53/00 (Core/Invention)

International class (IPC 1-7): B65D53/04

JP class F-Term: 3E084 3E084/AA04 3E084/AA12 3E084/BA01 3E084/BA08 3E084/CA01 3E084/DB12 3E084/FA09 3E084/FB01 3E084/GA01 3E084/GB01 3E084/HA01 3E084/HC07 3E084/HD01 3E084/LB01

JP class F-Index: B65D53/04/A B65D53/04/100

[Classification Explorer](#)

Forward Citations: WO13017754, WO12152622, WO10115811, WO08113855, US9440766, US8517201, US8225954, JP4774792, JP4698175, JP2012522694, JP2006290369, JP2006016010, EP2554487, EP2419348, EP2045194, DE102011106768, DE102011106768, DE102009016312, DE102008020472, DE102008020472, DE102007014084,

Abstract:

PROBLEM TO BE SOLVED: To prevent a tab of an inner seal from getting turned up by a method wherein the inner seal is made of an aluminum membrane which is formed of a packing, a circular part glued to the packing through a temporary adhesive layer with a sealant layer applied by coating to the underside thereof, and the tab for which adhesiveness is omitted at its underside. **SOLUTION:** An inner seal C is formed of a packing 10 and an aluminum membrane 12 which is laminated to the packing 10 through a temporary adhesive layer 11 whereon an adhesive in weak adhesiveness is applied. The aluminum membrane 12 is made up of a synthetic resin film 13 and an aluminum foil 14 on which printing is applied, and also made up of a laminated sheet 15 with a circular part 17 for covering the mouth of a container and a tab 18 projecting beyond the periphery of the circular part 17 formed thereon and a sealant layer 16 applied by coating to the underside of the laminated sheet. The sealant layer 16 is not applied by coating to the underside of the tab 18. On mounting onto a cap, the tab 18 is placed on the upside and the inner seal C joined by bending onto the upside of the packing 10 is thrust into the inside at the top wall of the cap.

1851



Family:	Publication number	Publication date	Application number	Application date
	US4739891 A	19880426	US19870070616	19870710

Assignee(s): CHASE MANHATTAN BANK (NATIONAL ASSOCIATION) AGENT ; CHASE MANHATTAN BANK AS AGENT ; CHASE MANHATTAN BANK NATIONAL ASSOCIATION AGENT AS ; GENERAL BINDING CORP ; SECURITY PACIFIC BUSINESS CREDIT INC ; HELLER FINANCIAL INC ; PORTOLA PACKAGING INC ; HARRIS TRUST AND SAVINGS BANK AS AGENT ; VELOBIND INC ; SECURITY PACIFIC BUSINESS CREDIT INC A CORP OF DE ; HARRIS TRUST AND SAVINGS BANK AGENT AS ; HELLER FINANCIAL INC A DE CORP ; HELLER FINANCIAL INC A DELAWARE BUSINESS TRUST

International class (IPC 8-9): B65D41/48 B65D51/20 (Advanced/Invention);
B65D41/32 B65D51/18 (Core/Invention)

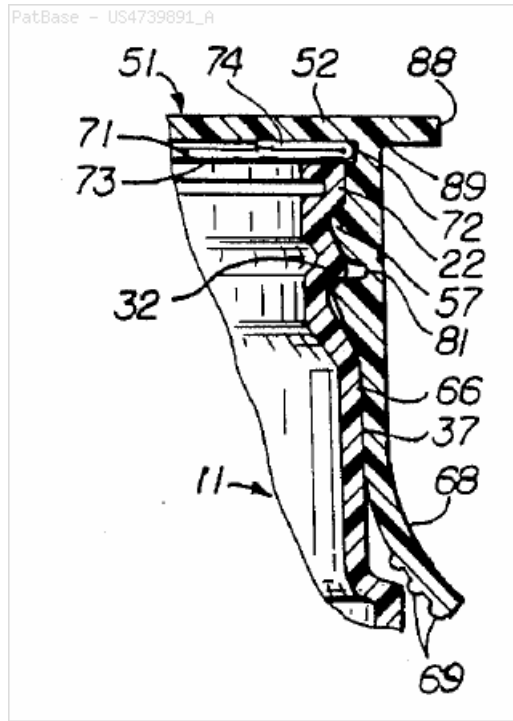
1-7):

European class: B65D41/48 B65D51/20 L65D251/00Y2D L65D251/00Y6M

Classification Explorer

Forward Citations: WO10115811, US7832580, US7703625, US7228979, US7207451, US6637611, US6439412, US6089391, US6073809, US5887738, US5862953, US5858141, US5819964, US5456376, US5415306, US2010181323, US2008110896, US2007034590, US2006054584, US2005269282, US2004251228, US2004140284, US2004055991, ES2514116.

To resist tampering with the contents of containers, a plastic cap is provided with a foil liner. When the cap is seated on the container neck, the foil is caused to be sealed across the neck. To inhibit the foil from coming loose from the cap before closure a circumferential groove is formed in the inside of the skirt wall immediately below the cap top disc. The outer edge of the foil snaps into the groove but does not remain in the groove when the cap is removed for dispensing contents. A tab is formed extending out from the edge of the foil to be gripped by the consumer to remove the foil. This tab is folded over when the tab and cap are intact.

**22) Family number: 50519376 (US2013032598A)**

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Title: HEAT-SEALABLE INNER SEAL FOR SEALING A CONTAINER

Priority: FR20110057057 20110801 EP20110187161 20111028 US20110285166 20111031
 EP20120706642 20120127 WO2012FR50181 20120127 US20120536427 20120628

Family:	Publication number	Publication date	Application number	Application date
	AU2012291959 AA	20130207	AU20120291959	20120127
	AU2012291959 AA	20140116	AU20120291959	20120127
	AU2012291959 BB	20150723	AU20120291959	20120127
	BR112013033535 A2	20170207	BR20131133535	20120127
	CA2839664 AA	20131217	CA20122839664	20120127
	CA2839664 C	20180313	CA20122839664	20120127
	CN103619720 A	20140305	CN201280032009	20120127
	CN103619720 B	20151125	CN201280032009	20120127
	DE602011012083 D1	20150129	DE201160012083T	20111028
	DE602012008211 D1	20150806	DE201260008211T	20120127
	EP2554487 A1	20130206	EP20110187161	20111028
	EP2554487 B1	20141210	EP20110187161	20111028
	EP2574183 A1	20130403	EP20120706642	20120127
	EP2574183 B1	20150624	EP20120706642	20120127
	ES2527186 T3	20150121	ES20110187161T	20111028
	ES2548953 T3	20151021	ES20120706642T	20120127
	FR2962719 A1	20120120	FR20110057057	20110801
	FR2962719 B1	20120810	FR20110057057	20110801
	HK1191306 A1	20170407	HK20140104315	20140507
	HK1191306 A1	20170407	HK20140104315	20140507
	HK1191306 A1	20140725	HK20140104315	20140507
	HK1191306 B	20170407	HK20140104315	20140507
	HU024975 T2	20160128	HU20120706642T	20120127
	IL230170 A0	20140227	IL20120230170	20120127
	IL230170 A1	20171231	IL20120230170	20120127
	IN03769KN2013 A	20140411	IN2013KN03769	20131219
	IN317715 B	20190809	IN2013KN03769	20131219
	JP2014525878 T2	20141002	JP20140523356T	20120127
	JP5985636 B2	20160906	JP20140523356T	20120127
	MX2013014995 A1	20150416	MX20130014995	20120127
	MX341509 B	20160822	MX20130014995	20120127
	PL2554487 T3	20150529	PL20110187161T	20111028
	PL2574183 T3	20151030	PL20120706642T	20120127
	PT2554487 T	20141222	PT20110187161T	20111028
	PT2574183 T	20150804	PT20120706642T	20120127
	RU2013158487 A	20150710	RU20130158487	20120127
	RU2587397 C2	20160620	RU20130158487	20120127

TH137012 A	20141001	TH20131007360	20120127
TR201508232 T4	20150821	TR20150008232T	20120127
UA111491 C2	20160510	UA20130015391	20120127
US2013032598 AA	20130207	US20120536427	20120628
US8225954 BA	20120724	US20110285166	20111031
US8517201 BB	20130827	US20120536427	20120628
WO13017754 A1	20130207	WO2012FR50181	20120127
ZA201309580 A	20141223	ZA20130009580	20131218

Probable Assignee: MANUFACTURE GENERALE DE JOINTS

Assignee(s):(std): BISCHOFF REMY ; JOINTS MANUF GENERALE ; MFT GENERALE DE JOINTS ; REMY BISCHOFF ; STEPHANE TRIQUET ; TRIQUET STEPHANE

Assignee(s): MANUFACTURE GENERALE DE JOINTS ; MANUFACTURE GENERALE DE JOINTS CHAZAY D AZERGUES

Inventor(s):(std): BISCHOFF RMY ; REMY BISCHOFF ; STEPHANE TRIQUET ; TRIQUET STPHANE ; TRIQUET STEPHANE ; BISCHOFF REMY

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; SPRUSON AND FERGUSON; CULLENS PTY LTD; BROUILLETTE AND ASSOCIES PARTNERS; BROUILLETTE LEGAL INC; MEISSNER BOLTE AND PARTNER GBR; DENJEAN ERIC; ISERN JORGE; CABINET LAURENT ET CHARRAS; IT AND T INTELLECTUAL PROPERTY; GE EHRlich 1995 LTD; MUESERREF AKYOL; TECH VALLEY PATENT LLC; JOHN; DENJEAN ERIC 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 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

International class (IPC 8-9): B23P17/04 B65D B65D17/34 B65D51/20 B65D53/00 B65D53/04 B65D77/20 (Advanced/Invention); B65D51/20 B65D77/20 (Core/Invention); B65D (Subclass/Invention)

CPC: B65D51/20 B65D53/04 B65D77/2044 B65D2251/0015 B65D2251/009 B65D2251/0093 B65D2577/205 Y10T29/49

European class: B65D51/20 B65D53/04 B65D77/20E1B3 L65D251/00Y2D L65D251/00Y6K L65D251/00Y6M L65D577/20M1

US class: 215/232 215/250 215/258 215/347 215/349 220/254.1 220/258.2 220/270 220/276 220/359.2 220/359.3 220/359.4 229/123.1 229/123.2 29/592

JP class F-Term: 3E067 3E067/BA01 3E067/BB14 3E067/BB25 3E067/CA21 3E067/CA24 3E067/EA29 3E067/EA32 3E067/EB27 3E067/FA01 3E067/FC01 3E067/GD10

JP class F-Index: B65D77/20/M

[Classification Explorer](#)

Cited documents: WO9935045 A1, WO9725200 A1, WO10115811 A1, US8225954 BA, US6866926 BA, US6866926, US6193094 BA, US5372268 A, US4754890 A, US4288027 A, US2009078671 AA, US2008073308 AA, JP5614875 U, JP56014875 U1, JP56014875 U1, JP3029757 A2, JP3029757, JP2010540354 T2, JP2010540354 T2, JP2010540354, JP200801414, JP2008001414 A2, JP2008001414, JP2002500137 T2, JP2002500137 T2, JP2002500137, JP2000191021 A2, JP0329757, GB2330134 A1, FR2943322 A1, FR2943321 A1, FR2827841 B1, FR2716407 A1, EP2230190 A1, EP2125354 A1, EP2069214 A2, EP2045194 A1, EP0403393 A1, DE3920324 A1,

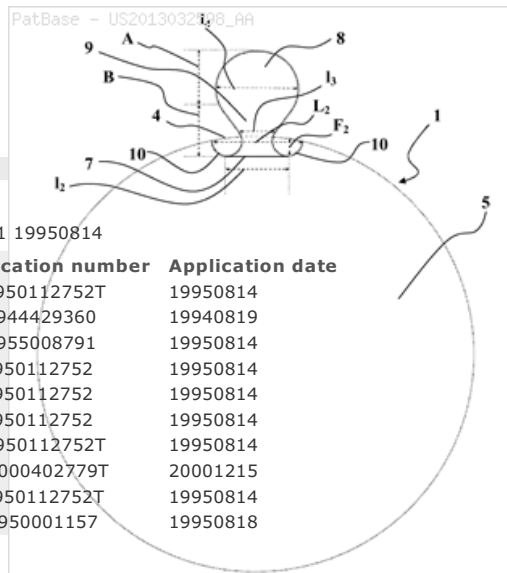
DE102007014084 B3

CN1814510 A, CN101687582 A, CN101652293 A, CH634520 A, CH634520, CA2019501 AA,

Forward Citations: WO18115732, WO14053635, US9834347, US9834331, US9809360, US9676504, US9630762, US9474397, US9469445, US9114899, US9032698, US8998030, US8991632, US8517201, US2015219070, US2015183626, US2015122818, US2015041357, US2014326727, US2013032598, US2012199599, US10066598, EP2716551, EP2716551, CN108657628, CN104044805, CN104044805,

Abstract:

Heat-sealable seal including a support bonded to an inner seal by a temporary adhesive is provided. The inner seal has a pull-tab which is folded back once on the surface of the inner seal in contact with the corresponding surface of the support. The inner seal includes a laminate having a reinforcing layer and a sheet of a conducting material, to the lower surface of which is applied a heat-sealing film. The temporary adhesive is applied to the whole surface of the inner seal once the pull-tab is folded back. The seal is characterized in that the laminate has over its entire thickness a notch from which the pull-tab emerges, and a fold line formed by the pull-tab once the pull-tab is folded back, the fold line having a shorter length than the length of the notch. Methods of producing the seal are also disclosed.



23) Family number: 10674376 (EP0697345A2)

Title: SEALING DISC WITH GRIPTAB

Priority: DE19944429360 19940819 DE19955008791 19950814

Family:	Publication number	Publication date	Application number	Application date
	AT197030 E	20001115	AT19950112752T	19950814
	DE4429360 A1	19960321	DE19944429360	19940819
	DE59508791 D1	20001123	DE19955008791	19950814
	EP0697345 A2	19960221	EP19950112752	19950814
	EP0697345 A3	19970312	EP19950112752	19950814
	EP0697345 B1	20001018	EP19950112752	19950814
	ES2151571 T3	20010101	ES19950112752T	19950814
	GR3035091 T3	20010330	GR20000402779T	20001215
	PT697345 T	20010330	PT19950112752T	19950814
	SG38865 A1	19970417	SG19950001157	19950818

Probable Assignee: ALFELDER KUNSTSTOFFW MEYER H

Assignee(s):(std): ALFELDER KUNSTSTOFFW MEYER H ; ALFELDER KUNSTSTOFFWERKE ; ALFELDER KUNSTSTOFFWERKE HERM

Assignee(s): ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH ; ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH 31061 ALF ; ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH 31061 ALFELD DE

Inventor(s):(std): TROMACH HORST ; WIENING HEINZ RUDOLF ; TROMBACH HORST

Inventor(s): HEINZ RUDOLF WIENING ; HORST TROMBACH ; WIENING HEINZ RUDOLF 31061 ALFELD DE ; TROMBACH HORST 25757 BREMEN DE

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

International class (IPC 8-9): B65D51/04 B65D51/20 B65D53/04 (Advanced/Invention); B65D77/20 (Advanced/Non-invention); B65D51/00 B65D51/18 B65D53/00 (Core/Invention); B65D77/10 (Core/Non-invention)

International class (IPC 1-7): B65D51/04 B65D51/20 B65D53/04 B65D55/02

CPC: B65D51/20 B65D53/04 B65D2251/0015 B65D2251/0093 B65D2577/205

European class: B65D51/20 B65D53/04 L65D251/00Y2D L65D251/00Y6M L65D577/20M1

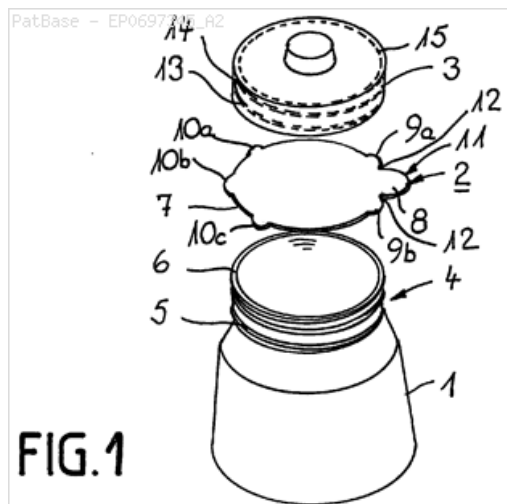
[Classification Explorer](#)

Cited documents: US4722447 A, US4266687 A, GB2142911 A1, FR2577524 A1, FR2502589 A1, EP0148527 A2, DE1482575 A1,

Forward Citations: WO15198576, WO13092518, WO13092472, WO12172029, WO12079971, WO10115811, WO0066453, WO0066450, US9688448, US9132947, US6974045, JP6487639, JP2016011121, ITRN20120005, FR2794104, EP2794418, EP2794413, EP2651635, EP2617658, EP2617658, EP2607260, EP2607259, EP0959016, DE19920572, DE102010054494, DE102009016312, DE102008020472, DE102008020472, DE102007014084, CN104010946, AU2012357895,

Abstract:

The sealing disc arrangement closes the pouring opening for a container. The sealing disc (2) has support tabs (9a,9b) to ensure a good seat for the gripping tab (8) in the lock (3). Retaining tabs (10a,10b,10c) are provided to give extra security for the sealing disc in the lock. The retaining tabs and the support tabs fit in a channel (16) and/or in a channel (14) of an inner thread (13) of the lock to hold the sealing disc in the lock.



24) Family number: 28669382 (US5637396A)

Title: INNER SEALING MATERIAL

Priority: JP19910350826 19911211 US19930073055 19930608 US19950437564 19950509

Family:

Publication number	Publication date	Application number	Application date
JP2682315 B2	19971126	JP19910350826	19911211
JP5162765 A2	19930629	JP19910350826	19911211
US5637396 A	19970610	US19950437564	19950509

Probable Assignee: TOPPAN PRINTING CO LTD

Assignee(s):(std): TOPPAN PRINTING CO LTD

Assignee(s): TOPPAN PRINTING CO

Inventor(s):(std): SATO HIROSHI ; OGAWA RYUTA ; OGAWA RYOTA

International class (IPC 8-9): B32B15/08 B65B7/28 B65D41/04 B65D53/04 (Advanced/Invention); B32B15/08 B65B7/28 B65D41/04 B65D53/00 (Core/Invention)

International class (IPC 1-7): B32B15/08 B65B7/28 B65D53/04

CPC: B65D41/045 Y10T428/15 Y10T428/24802 Y10T428/24843 Y10T428/24917 Y10T428/2804 Y10T428/2813 Y10T428/2817 Y10T428/2826 Y10T428/2839 Y10T428/2878 Y10T428/31663 Y10T428/31895 Y10T428/31928 B32B15/08 B32B5/18 B32B7/12 B32B27/065 B32B27/08 B32B27/32 B32B29/007 B32B2266/025 B32B2323/04 B32B2323/10 B32B2435/02 B32B2581/00 B65D53/04

European class: B32B15/08 B65D41/04D2 B65D53/04

US class: 428/195.1 428/200 428/209 428/344 428/346 428/347 428/349 428/352 428/355.0EN 428/355EN 428/43 428/447 428/511 428/520

JP class F-Term: 3E049 3E049/AA01 3E049/AB02 3E049/BA03 3E049/DB05 3E049/FA04 3E084 3E084/AB07 3E084/BA08 3E084/BA09 3E084/CA01 3E084/DA01 3E084/DB12 3E084/FA09 3E084/FB01 3E084/FC08 3E084/FC09 3E084/FD13 3E084/GA01 3E084/GB01 3E084/GB08 3E084/HA02 3E084/HB05 3E084/HC09 3E084/KA14 3E084/KB10 3E084/LA01 3E084/LA17

JP class F-Index: B65B7/28/C B65D53/04/A B65D53/04/100

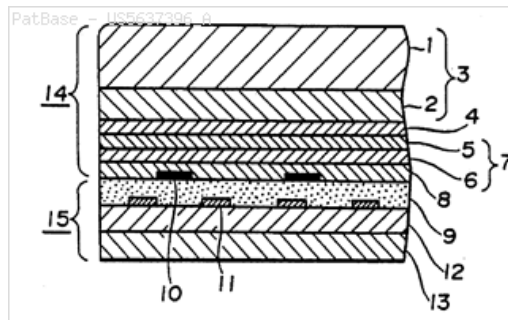
[Classification Explorer](#)

Cited documents: US5197618 A, US4981229 A, US4960216 A, US4917949 A, US4722447 A, US4697719 A, US4666052 A, US4596338 A, US4579240 A, US3963845 A, JP63088977 U1, JP3114751 U, DE4020371 A1,

Forward Citations: WO13092518, WO12172029, USRE39520, US9944440, US9845181, US9688448, US7850033, US6722272, US6308853, US6277478, US6131754, US6127023, US2012103988, US2011000917, US2008121605, US2004065977, JP3893504, JP2015506315, JP2007050895, JP11029157, EP2794418, EP2607260, EP1159220, EP1159220, EP0628493,

Abstract:

An improved inner sealing material, which is fitted in a cap of a container has basically a membrane layer having at least a metal layer and a reseal layer having at least an elastic sheet layer, with said membrane and reseal layers being superposed in such a way that one can be separated from the other. The topmost part of the membrane layer is formed of a release layer that is made of a mixture of an acrylic resin and a chlorinated vinyl acetate base resin and which is overlaid with an adhesive layer made of a chlorinated polypropylene base resin whereas the bottommost part of the reseal layer has a polypropylene base resin layer. The inner sealing material can be subjected to high-frequency sealing without losing the inherent capability of assuring smooth separation between the membrane and reseal layers.



25) Family number: 41937394 (US2010047552A)

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Title: LAMINATE

Priority: EP20060126645 20061220 AU20070337099 20071214 CN200780050330 20071214
WO2007US87520 20071214 US20090519887 20090818 US20110284526 20111028
AU20130251225 20131031

Family:

Publication number	Publication date	Application number	Application date
AT534512 E	20111215	AT20060126645T	20061220
AU2007337099 AA	20080703	AU20070337099	20071214
AU2007337099 BB	20130822	AU20070337099	20071214
AU2013251225 AA	20131121	AU20130251225	20131031
AU2013251225 BB	20160922	AU20130251225	20131031
BRPI0719456 A2	20140204	BR2007PI19456	20071214
CA2673540 AA	20090619	CA20072673540	20071214
CA2673540 C	20150526	CA20072673540	20071214
CN101616848 A	20091230	CN200780050330	20071214
CN101616848 B	20140416	CN200780050330	20071214
CN103950235 A	20140730	CN201410103465	20071214

CN103950235 B	20160323	CN201410103465	20071214
DE602006025982 D1	20120202	DE200660025982T	20061220
EP1935636 A1	20080625	EP20060126645	20061220
EP1935636 B1	20111123	EP20060126645	20061220
EP1935636 B2	20160120	EP20060126645	20061220
ES2377333 T3	20120326	ES20060126645T	20061220
KR101557287 B1	20151006	KR20147003030	20071214
KR101557438 B1	20151006	KR20147023322	20071214
KR20090101352 A	20090925	KR20097014461	20071214
KR20140113742 A	20140924	KR20147023322	20071214
KR20150005898 A	20150115	KR20147003030	20071214
KR20150005898 A9	20150424	KR20147003030	20071214
MX2009006778 A1	20090817	MX20090006778	20071214
NZ577908 A	20111125	NZ20070577908	20071214
PL1935636 T3	20120531	PL20060126645T	20061220
PL1935636 T5	20160531	PL20060126645T	20061220
US2010047552 AA	20100225	US20070519887	20071214
US2012043330 AA	20120223	US20110284526	20111028
US8906185 BB	20141209	US20070519887	20071214
US10005598 BB	20180626	US20110284526	20111028
VN10522 A1	20120925	VN20090001531	20071214
WO08079730 A1	20080703	WO2007US87520	20071214

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): MCLEAN ANDREW FENWICK ; SACHS VICTOR ; SELIG SEALING PRODUCTS INC ; ILLINOIS TOOL WORKS ; THORNHILL CRAIG WARREN

Assignee(s): ILLINOIS TOOL WORKS INC ; SELIG SEALING PRODUCTS INC FORREST ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP

Inventor(s):(std): MCLEAN ANDREW FENWICK ; SACHS VICTOR ; THORNHILL CRAIG WARREN ; WARREN THORNHILL CRAIG ; VICTOR SACHS ; FENWICK MCLEAN ANDREW

Inventor(s): ANDREW FENWICK MCLEAN ; CRAIG WARREN THORNHILL ; THORNHILL CRAIG WARREN BERKSHIRE ; SACHS VICTOR SURREY ; MCLEAN ANDREW FENWICK BERKSHIRE

Agent(s): SPRUSON AND FERGUSON; MACRAE AND CO; JONES HELEN MM; FITCH EVEN TABIN AND FLANNERY; FITCH EVEN TABIN AND FLANNERY LLP; HAUPTMAN BENJAMIN J

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): B32B27/00 B32B27/08 B32B37/12 B32B37/20 B32B7/12 B65D17/34 B65D51/18 B65D51/20 B65D53/00 B65D53/04 B65D65/40 (Advanced/Invention); B32B37/15 (Advanced/Non-invention); B32B27/00 B32B37/12 B32B7/12 B65D51/18 B65D53/00 B65D65/40 (Core/Invention)

International class (IPC 1-7): B32B27/00 B65D51/20

CPC: B32B27/08 B32B37/153 B32B37/203 B32B2310/024 B32B2435/00 B65D2577/2041 B65D51/20 Y10T428/249982

European class: B32B27/08 B32B37/20A B65D51/20 L32B310/02A2 L32B37/15B L32B435/00 L65D577/20M

US class: 156/244.11 156/324 156/324S 220/359.2 220/359.200P 428/317.1 428/317.100P

[Classification Explorer](#)

Cited documents: WO9702997 A1, WO9702997 A1, WO8902402 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO07109113 A2, WO06108853 A1, WO06108853 A1, WO06099260 A1, WO06021291 A1, WO06018556 A1, WO03066465 A1, WO0066450 A1, USRE39790 E, US8329288 BB, US7838109 BB, US7819266 BB, US7740927 BB, US7713605 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7182475 BB, US7128210 BB, US7012032 BB, US6974045 BA, US6960392 BB, US6955736 BB, US6945177 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6659507 BB, US6602309 BB, US6458302 BA, US6378715 BA, US6312776 BA, US6277478 BA, US6264098 BA, US6194042 BA, US6139931 A, US6131754 A, US6082566 A, US6027776 A, US5975304 A, US5726283 A, US5709310 A, US5702015 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5543233 A, US5514470 A, US5514442 A, US5514434 A, US5319475 A, US5265745 A, US5197618 A, US5178967 A, US5149386 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US4961986 A, US4961986 A, US4960216 A, US4934544 A, US4892209 A, US4837061 A, US4801647 A, US4741791 A, US4679519 A, US4582735 A, US4452842 A, US4416937 A, US4206165 A, US4133796 A, US3938686 A, US3620898 A, US2012111758 AA, US2011091715 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010030180 AA, US2010028668 AA, US2010009162 AA, US2009208729 AA, US2009142530 AA, US2009078671 AA, US2008233339 AA, US2008156443 AA, US2008103262 AA, US2008026171 AA, US2007298273 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005208242 AA, US2005048307 AA, US2004109963 AA, US2003196418 AA, US2003186047 AA, US2002193820 AA, US2002068140 AA, TW194965, MX5002002905 A1, MX2010001867 A1, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP4173135 A2, JP2004315035 A2, JP2000255621 A2, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP2014461 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1472153 B1, EP1472153 A1, EP1472153, EP1445209 B1, EP1075921 B1, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 A1, EP0668221 A1, EP0518411 A1, EP0444865 B1, DE9108868 U, DE69119934 T2,

DE202009000245 U1

DE10204281 A1,

DE102007022935 B4

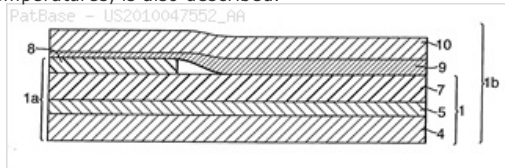
CN1642820 A, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations:

WO12037483, WO12037483, WO09029247, WO09029247, US9994357, US9834339, US9833979, US9821540, US9815589, US9676513, US9624008, US9533805, US9532836, US9440768, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8906185, US8746484, US8703265, US8522990, US8308003, US8201385, US2017259978, US2015342684, US2015027619, US2014361013, US2014001185, US2012228297, US2010193463, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10005598, US10000310, KR101370239, JP5667296, JP2013538758, EP2892819, EP2892819, EP2892818, EP2892818, EP2616351, EP2565030, EP2565030, EP2522504, EP2522504, EP2183106, CN105636875, CN103079964,

Abstract:

A method is provided for producing a primary laminate including a tabstock in which a seal laminate including a foil layer and a top foam layer, a tabstock and a plastic film stock are fed to a lamination station. At the lamination station, a curtain of polymeric adhesive is extruded between the plastics film stock and the top face of the primary substrate, which is partly comprised of the top face of the tabstock and partly comprised of the top foam layer of the seal laminate. Use of primary laminates obtained by such a process to form seals for sealing a container, for food or drink stored at low temperatures, is also described.

**26) Family number: 42180426 (US2008231922A)**

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Title: CONTAINER SEAL WITH REMOVAL TAB AND HOLOGRAPHIC SECURITY RING SEAL**Priority:** US20070896820P 20070323 US20080026766 20080206 WO2008US54383 20080220**Family:**

Publication number	Publication date	Application number	Application date
CA2681685 AA	20081002	CA20082681685	20080220
CA2681685 C	20141021	CA20082681685	20080220
EP2139674 A2	20100106	EP20080730228	20080220
US2008231922 AA	20080925	US20080026766	20080206
US8522990 BB	20130903	US20080026766	20080206
WO08118570 A2	20081002	WO2008US54383	20080220
WO08118570 A3	20090709	WO2008US54383	20080220

Probable Assignee: SELIG SEALING PRODUCTS INC**Assignee(s):(std):** ILLINOIS TOOL WORKS ; SELIG SEALING PRODUCTS INC ; THORSTENSEN WOLL ROBERT WILLIA ; THORSTENSEN WOLL ROBERT WILLIAM**Assignee(s):** SELIG SEALING PRODUCTS INC342 EAST WABASH STREETFORRESTIL61741US ; ILLINOIS TOOL WORKS INC ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP**Inventor(s):(std):** THORSTENSEN WOLL ROBERT WILLIA ; THORSTENSEN WOLL ROBERT WILLIAM**Inventor(s):** THORSTENSEN WOLL ROBERT WILLIAMUS**Agent(s):** MACRAE AND CO; ROUND EDWARD MARK; PERRY HOFFMAN AND ASSOCIATES PC; FITCH EVEN TABIN AND FLANNERY LLP; HAUPTMAN BENJAMIN J**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 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 MY NZ NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**International class (IPC 8-9):** B29D22/00 B32B15/08 B65D51/18 B65D55/08 G03H1/00 G09F3/03 (Advanced/Invention); B32B15/08 B65D55/02 G03H1/00 G09F3/03 (Core/Invention)**CPC:** Y10T428/1359 Y10T428/14 G03H1/02 B32B7/12 B32B15/08 G03H1/0244 G03H1/0252 G03H2250/12 G03H2250/35 G09F3/0292 G09F3/0341**European class:** B32B15/08 B32B7/12 G03H1/02 G03H1/02L G09F3/02D2 G09F3/03A5 S03H1/02H1 S03H250/12 S03H250/35**US class:** 215/232 359/2 359/2P 428/35.9 428/40.1[Classification Explorer](#)**Cited documents:**

WO9702997 A1, WO9308084 A1, WO8902402 A1, WO11039067 A1, WO10115811 A1, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO07109113 A2, WO06108853 A1, WO06099260 A1, WO06021291 A1, WO06018556 A1, WO05100186 A1, WO0066450 A1, USRE39790 E, US7838109 BB, US7819266 BB, US7740927 BB, US7713605 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7224528 BB, US7182475 BB, US7144617 BB, US7128210 BB, US7064897 BB, US7029745 BB, US7012032 BB, US7005178 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6775036 BB, US6767425 BB, US6737154 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6659507 BB, US6602309 BB, US6531230 BA, US6494491 BA, US6458302 BA, US6378715 BA, US6351537 BA, US6312776 BA, US6284337 BA, US6258425 BA, US6194042 BA, US6139931 A, US6131754 A, US6120882 A, US6082566 A, US5702015 A, US5669521 A, US5656360 A, US5615789 A, US5601200 A, US5598940 A, US5544770 A, US5514442 A, US5510171 A, US5319475 A, US5265745 A, US5226281 A, US5218472 A, US5197618 A, US5178967 A, US5169707 A, US5160767 A, US5153042 A, US5149386 A, US5135262 A, US5128779 A, US5098495 A, US5084143 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US4994314 A, US4980222 A, US4961986 A, US4934544 A, US4892209 A, US4856857 A, US4837061 A, US4767016 A, US4741791 A, US4650082 A, US4579240 A, US4514248 A, US4438850 A, US4266687 A, US4206165 A, US4013188 A, US2011091715 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA,

US2010059942 AA, US2010030180 AA, US2010009162 AA, US2009208729 AA, US2009078671 AA, US2008257850 AA, US2008233424 AA, US2008156443 AA, US2008103262 AA, US2008026171 AA, US2007298273 AA, US2007206249 AA, US2007195392 AA, US2007183047 AA, US2007058227 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005208242 AA, US2005048307 AA, US2004209028 AA, US2004109963 AA, US2002068140 AA, TW194965, MX5002002905 A1, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP2004315035 A2, JP2000255621 A2, GB2298391 A1, GB2273492 A1, GB2241230 A1, FR2943322 A1, FR2916157 A1, FR2754375 A1, US2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1834893 A1, EP1445209 B1, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1,

DE202009000245 U1

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DE102007022935 B4

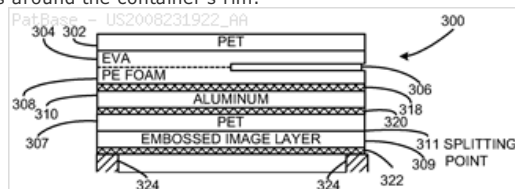
DE102006030118 B3

BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations: WO13102918, WO13102918, US9994357, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8746484, US8201385, US2017144176, US2015083723, US2012175384, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10000310, EP2723649, EP2723649, EP2723649, CN109003535, CN104760757,

Abstract:

A holographic sealing member for a container is designed for attachment to the rim of an opening in the container. The holographic sealing member comprises a holographic layer having an upper plastic layer on its upper side and a lower embossed image layer on its lower side. A sealant or adhesive layer is attached to at least those portions of the lower side of the holographic layer that are intended to come into direct contact with the container's rim when the sealing member is placed upon and is sealed to a container. A metal foil layer lies over and covers and is adhesively bonded to the upper side of the holographic layer and may be inductively heated to actuate the heat actuated sealant. A tab covers and is adhesively bonded to the metal foil layer and may be pulled to remove the sealing member from a container. After this sealing member is attached to a container, and when the tab is pulled to remove the sealing member from the container, almost the entire sealing member pulls away from the container, but those portions of the holographic layer's lower embossed image layer that are attached directly to the rim of the container by the sealant or adhesive layer remain attached to the rim of the container to form a hologram that runs around the container's rim.



27) Family number: 3324468 (EP0404153A1)

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Title: CONTAINER WITH THREADED CAP OR SNAP-ON CAP

Priority: DE19893920324 19890621 CA19902019501 19900621

Family:	Publication number	Publication date	Application number	Application date
	AU199057652 A1	19910103	AU19900057652	19900620
	AU631434 B2	19921126	AU19900057652	19900620
	BRPI9002919 A	19910820	BR1990PI02919	19900621
	CA2019501 AA	19901221	CA19902019501	19900621
	DE3920324 A1	19910110	DE19893920324	19890621
	DE3920324 C2	19921001	DE19893920324	19890621
	EP0404153 A1	19901227	EP19900111765	19900621
	JP3029757 A2	19910207	JP19900163967	19900621
	NZ234183 A	19921028	NZ19900234183	19900621
	ZA9004838 A	19910424	ZA19900004838	19900621

Probable Assignee: ALCAN GMBH

Assignee(s):(std): ALCAN GMBH ; ALCAN INT LTD

Assignee(s): ALCAN INTERNATIONAL LIMITED ; ALCAN INTERNATL LTD ; ALCAN INTERNATIONAL LTD ; HARTZHEIM GERDA M ; ALCAN DEUTSCHLAND GMBH ; ALCAN DEUTSCHLAND GMBH 3400 GOETTINGEN DE

Inventor(s):(std): HARTZHEIM GERDA MARIA ; HARTZHEIM GERDA M ; HARTZHEIM GEB SOKOLOWSKY ; GERUDA MARIA HARUTSUHAIMU ; GERDA MARIA HARTZHEIM

Inventor(s): HARTZHEIM GEB SOKOLOWSKY GERDA MARIA 5840... ; HARTZHEIM GEB SOKOLOWSKY GERDA MARIA 5840 SCHWERTE

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; FETHERSTONHAUGH AND CO

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

International class (IPC 8-9): B65D41/50 B65D51/20 B65D53/00 B65D53/08 B65D77/20 (Advanced/Invention); B65D77/20 (Advanced/Non-invention); B65D41/32 B65D51/18 (Core/Invention); B65D77/10 (Core/Non-invention)

International class (IPC 1-7): B65B7/28 B65D41/50 B65D41/62 B65D43/02 B65D51/18 B65D51/20 B65D51/22 B65D53/00 B65D53/04 B65D53/08

CPC: B65D51/20 B65D2251/0015 B65D2251/0093 B65D2577/205

European class: B65D51/20 L65D251/00Y2D L65D251/00Y6M L65D577/20M1

JP class F-Term: 3E084 3E084/AA12 3E084/AA24 3E084/AA32 3E084/AA33 3E084/AB07 3E084/BA03 3E084/BA06 3E084/BA07 3E084/BA08 3E084/BA09 3E084/CA01 3E084/CB04 3E084/CC01 3E084/CC03 3E084/DA01 3E084/DB12 3E084/DB13 3E084/DC01 3E084/DC03 3E084/FA09 3E084/FB01 3E084/FC07 3E084/FD13 3E084/GA01 3E084/GA08 3E084/GB01 3E084/GB08 3E084/GB12 3E084/GB17 3E084/HA01 3E084/HB03 3E084/HC07 3E084/HD01 3E084/KA14

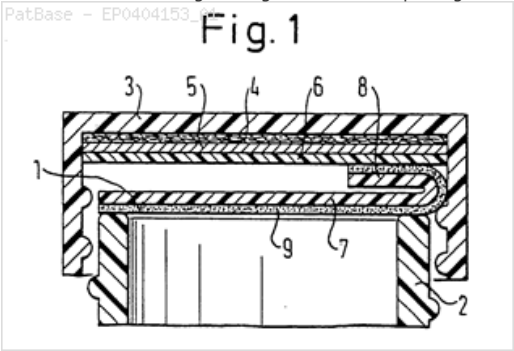
JP class F-Index: B65D41/50

[Classification Explorer](#)

Cited documents: US4605136 A, US3808074 A, GB2142911 A1, EP0148527 A2, DE1913692 A1, DE1482575 A1, DE1207868 B, CH475136 A,

Forward Citations: WO9905041, WO13017754, WO12152622, WO10115811, WO09040486, WO0066450, USD722885, US9637287, US9440766, US8672168, US8517201, US8225954, US6974045, US2012258212, JP5985636, JP2014525878, JP2010540354, GB2330134, GB2330134, FR2921347, EP2554487, EP2206655, EP2206655, EP2069214, EP2069214, EP2045194, EP2045194, EP0998415, DE9108868, DE19920572, DE19920572, DE19818659, DE102013011481, DE102011106768, DE102011106768, DE102009016312, DE102009004235, DE102009004235, AU2008303432,

Abstract:
The container with a threaded or snap-on cap has an opening closed by a tear-off inductively sealable foil membrane (7) which is metal free at least in the area of its tear-off tab (8). The entire foil membrane together with its tear-off tab can be metal-free. A disc-shaped metal foil (5) is placed above or below the membrane, with the contour of the foil conforming with tghе container opening.



28) Family number: 3738560 (US4981229A)

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Title: Innerseal liner for containers

Priority: US19890378943 19890712 CA19902019762 19900625

Family:

Publication number	Publication date	Application number	Application date
AT111849 E	19941015	AT19900307035T	19900627
CA2019762 AA	19910112	CA19902019762	19900625
CN1021216 C	19930616	CN19901004578	19900709
CN1048678 A	19910123	CN19901004578	19900709
DE69012686 D1	19941027	DE19906012686	19900627
DE69012686 T2	19950504	DE19906012686T	19900627
DK0408217 T3	19950206	DK19900307035T	19900627
EP0408217 A1	19910116	EP19900307035	19900627
EP0408217 B1	19940921	EP19900307035	19900627
ES2064635 T3	19950201	ES19900307035T	19900627
FI89782 B	19930813	FI19900003512	19900711
FI89782 C	19931125	FI19900003512	19900711
FI903512 A0	19900711	FI19900003512	19900711
HK184196 A	19961011	HK19960001841	19961003
IE62716 B	19950222	IE19900002445	19900705
IE902445 A1	19910619	IE19900002445	19900705
JP3148456 A2	19910625	JP19900185156	19900712
KR0175927 B1	19990415	KR19900010457	19900711
KR100175927 B1	19990415	KR19900010457	19900711
KR19910002679 A	19910226	KR19900010457	19900711
NO176135 B	19941031	NO19900003091	19900711
NO176135 C	19950208	NO19900003091	19900711
NO903091 A	19910114	NO19900003091	19900711
NO903091 A0	19900711	NO19900003091	19900711
NO903091 L	19910114	NO19900003091	19900711
PH26956 A	19921228	PH19900040805	19900709
US4981229 A	19910101	US19890378943	19890712

Probable Assignee: GEN FOODS INC

Assignee(s):(std): GEN FOODS INC ; KRAFT FOODS INC ; GEN FOODS CORP

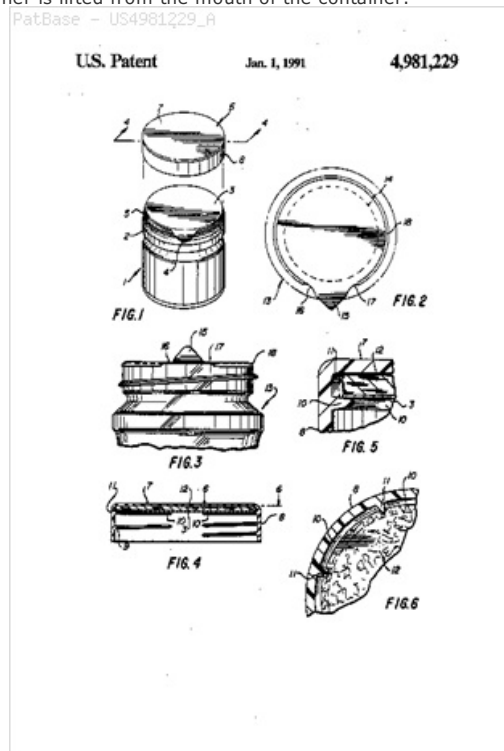
Assignee(s): KURAFUTO GENERAL FOODS INC ; KRAFT GENERAL FOODS ; KRAFT GENERAL FOODS INC ; KRAFT GENERAL FOODS INC WHITE PLAINS N Y US ; LANHAM SAMUEL E ; GENERAL FOODS CORP

Inventor(s):(std): LANHAM SAMUEL E ; LANHAM SAMUAL E ; SAMIYUERU II RANHAMU

Inventor(s): SAMUAL E LANHAM ; SAMUEL E LANHAM

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP
Designated states: AT BE CH DE DK ES FR GB IT LI LU NL SE
International class (IPC 8-9): B65D41/04 B65D51/20 B65D53/00 B65D53/04 B65D53/08 B65D77/20 (Advanced/Invention); B65D41/04 B65D51/18 B65D53/00 B65D77/10 (Core/Invention)
International class (IPC 1-7): B65D41/00 B65D41/02 B65D51/18 B65D51/22 B65D53/00 B65D53/04 B65D53/08 B65D77/20
CPC: B65D41/045 B65D51/20 B65D2251/0015 B65D2251/0093 B65D2577/205
European class: B65D41/04D2 B65D51/20 L65D251/00Y2D L65D251/00Y6M L65D577/20M1
US class: 215/232 215/305 220/270 220/359 220/359.2 D9/435 D9/438 D9/454
JP class F-Term: 3E084 3E084/AA02 3E084/AA12 3E084/BA03 3E084/BA06 3E084/BA07 3E084/BA08 3E084/BA09 3E084/BA10 3E084/CA01 3E084/DA01 3E084/DB12 3E084/DB20 3E084/FA09 3E084/FB01 3E084/FD13 3E084/GA01 3E084/GA10 3E084/GB01 3E084/GB08 3E084/GB17 3E084/HA02 3E084/HB05 3E084/HC04 3E084/HC07 3E084/KA20
JP class F-Index: B65D53/04/A B65D53/04/100
[Classification Explorer](#)
Cited documents: US812058 A, US771960 A, US4693391 A, US4605142 A, US4550842 A, US4423822 A, US2305361 A, US1622658 A, US1154853 A, GB598455 A, FR454556 A, EP0007971 A1, DE442135 A, CH179357 A,
Forward Citations: WO9935045, WO9633097, WO12152622, WO10115811, WO09000810, WO08113855, WO07092126, WO0066450, USD885182, USD820039, USD754535, USD675057, USD673808, USD673807, USD673462, USD642463, USD642055, USD636670, USD632563, USD536252, USD536251, USD536250, USD514444, USD466810, US9663276, US9440766, US9187223, US8733550, US8650839, US8505590, US8251236, US8120484, US8100277, US7850893, US7832580, US7798359, US7780024, US7766178, US7703625, US7644902, US7342501, US7124883, US7124883, US6981356, US6974045, US6908001, US6802418, US6722272, US6355286, US6308853, US6193094, US6127023, US5908128, US5858141, US5797509, US5712042, US5680968, US5637396, US5551608, US5447236, US5415306, US5184746, US5071017, US2013221006, US2008110896, US2006054584, US2005005578, US2004099630, US2002144915, TW1457100, JP5082849, JP5072750, EP2008553, EP1935796, EP1935796, EP1181211, DE102011106768, DE102011106768, DE102009016312, DE102008020472, DE102008020472, DE102007014084, CN104995104, AU765405,

Abstract:
An innerseal liner for containers is provided which permits the removal of the entire liner from the mouth of a container without any tearing of the liner. The innerseal liner is sealed to the mouth of the container and a portion of the outer circumference of the liner overhangs the outer surface of the mouth of the container. A pull tab is integrally formed with the innerseal liner and at the intersection of the pull tab with the circular portion of the liner are cut-outs in the circular periphery of the liner. The cut-outs may be arc-shaped and are of a depth approximately the same as the width of the overhang portion of the innerseal liner so that when the pull tab is pulled, the innerseal is removed from the mouth of the container along an arc approximately equal to the width of the pull tab and the length of the cut-out portions before the overhang portion of the liner is lifted from the mouth of the container.



29) Family number: 10135570 (US4722447A)

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Title: Closure assembly with two tamper indicators
Priority: US19860932667 19861120
Family:

Publication number	Publication date	Application number	Application date
US4722447 A	19880202	US19860932667	19861120

Probable Assignee: PORTOLA PACKAGING INC

Assignee(s):(std): NORTHERN ENG AND PLASTICS ; NORTHERN ENGINEERING AND PLAST

Assignee(s): NORTHERN ENGINEERING AND PLASTICS CORP ; PNC BANK NATIONAL ASSOCIATION ONE PNC PLAZA ; PORTOLA PACKAGING INC ; PNC BANK NATIONAL ASSOCIATION ; NORTHERN ENGINEERING AND PLASTICS CORP A PA CORP ; PORTOLA PACKAGING INC A CORP OF DELAWARE ; HELLER FINANCIAL INC ; HELLER FINANCIAL INC A DELAWARE BUSINESS TRUST

Inventor(s):(std): CRISCI ROBERT E

International class (IPC 8-9): B65D41/34 B65D51/20 (Advanced/Invention); B65D41/34 B65D51/18 (Core/Invention)

International class (IPC 1-7): B65D5/64

CPC: B65D41/3409 B65D51/20 B65D2251/0015 B65D2251/0093

European class: B65D41/34A1 B65D51/20 L65D251/00Y2D L65D251/00Y6M

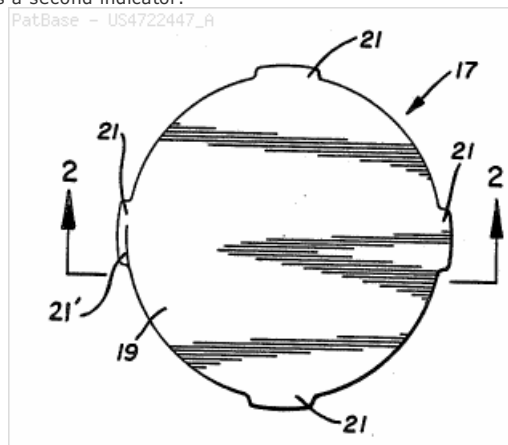
US class: 215/232 215/252

[Classification Explorer](#)

Cited documents: US4209126 A, US4171084 A, US3812994 A, US3805993 A, US3504818 A, US3501042 A, US3352268 A, US2937481 A, US2373847 A, US2180199 A, GB1255739 A,

Forward Citations: WO13092472, WO12172029, WO10115811, USD466810, US9637288, US9333605, US9181001, US8650839, US8650736, US8251236, US8146781, US8100277, US7960001, US7832580, US7798359, US7780024, US7766178, US7644902, US7431168, US7168581, US6908001, US6692685, US5887738, US5858141, US5664694, US5637396, US5514442, US5433992, US5415306, US5372268, US5012946, US5004111, US4961986, US4934544, US2010288721, US2010176133, US2009039112, US2008073308, US2007125785, US2006054584, US2005263524, US2004099630, US2004055992, FR2794104, EP2794413, EP2607259, EP0697345, EP0697345, DE102009016312, DE102008020472, DE102008020472, DE102007014084, CN104995104, CN104010946,

Abstract:
A tamper indicating container and closure combination in which the container has configurations about the neck thereof registering with configurations on a separate portion of a closure engageable therewith, which separate portion is separated from the closure when the closure is removed from the container. A sealing disc is positioned in the closure by limited frictional engagement therewith so that when the closure is removed from the container, the separable portion of the closure remains on the container as an indicator and the sealing disc remains in sealing relation on the container and must be wholly or partially removed by a tab thereon to gain access to the contents of the container whereby the sealing disc and tab forms a second indicator.



30) Family number: 63513649 (US2018079576A)

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Title: TABBED SEAL CONCEPTS

Priority: US20150127545P 20150303 CN201680002581 20160303 EP20160759486 20160303
US20160554240 20160303 WO2016US20666 20160303 US20170554240 20170829
US20200736912 20200108

Family:	Publication number	Publication date	Application number	Application date
	AU2016226216 AA	20170907	AU20160226216	20160303
	CN106687386 A	20170517	CN201680002581	20160303
	CN106687386 B	20191203	CN201680002581	20160303
	CN110817113 A	20200221	CN201911077744	20160303
	CO20170009078 A2	20171130	CO20170009078	20170905
	DE602016028349 D1	20200213	DE201660028349T	20160303
	EP3265397 A1	20180110	EP20160759486	20160303
	EP3265397 A4	20181031	EP20160759486	20160303
	EP3265397 B1	20200115	EP20160759486	20160303
	EP3623312 A1	20200318	EP20190206791	20160303
	HK1237749 A1	20180420	HK20170112068	20171117
	KR20170127518 A	20171121	KR20177028147	20160303
	MX2017011161 A1	20190214	MX20170011161	20160303
	US2018079576 AA	20180322	US20160554240	20160303
	US2020140176 AA	20200507	US20200736912	20200108
	US10556732 BB	20200211	US20160554240	20160303

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): SELG SEALNG PRODUCTS INC ; SELIG SEALING PRODUCTS IN ; SELIG SEALING PRODUCTS INC

Assignee(s): SELIG SEALING PRODUCTS INC FORREST

Inventor(s):(std): BROWN JOHN J ; BRUCKER STEVEN A ; JOHN J BROWN ; ROBERT WILLIAM THORSTENSEN WOLL ; STEPHEN P CASSIDY ; STEVEN A BRUCKER ; THORSTENSEN WOLL ROBERT WILLIAM ; CASSDY STEPHEN P ; CASSIDY STEPHEN P ; THORSTENSEN WOLL ROBERT WLLAM

Inventor(s): CASSIDY STEPHEN P SOUTH BARRINGTON ; THORSTENSEN WOLL ROBERT WILLIAM BARRIE ; BRUCKER STEVEN A GIBSON CITY ; BROWN JOHN J LAGRANGE

Agent(s): SHELSTON IP PTY LTD; CLAUDIA LUCIA CARO RAMIREZ; GILL JENNINGS AND EVERY LLP; BIRD AND BIRD; 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 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 TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): B29C65/00 B29C65/02 B29C65/48 B32B15/08 B32B15/20 B32B27/08 B32B27/36 B32B3/26 B32B37/06 B32B37/12 B32B5/18 B32B7/04 B32B7/05 B32B7/12 B65B B65B7/01 B65B7/16 B65B7/28 B65D B65D51/20 B65D77/00 B65D77/20 (Advanced/Invention); B29K667/00 B29K705/02 B29L31/56 (Advanced/Non-invention)

CPC: B65B7/2878 B65D51/20 B65D77/2024 B65D2251/0093 B65D2577/205 B29C65/02 B29C65/48 B29C66/13 B29C66/712 B29C66/7315 B29C66/7422 B29K2667/003 B29K2705/02 B29L2031/565 B32B3/266 B32B5/18 B32B7/05 B32B7/12 B32B15/08 B32B15/20 B32B27/08 B32B27/36 B32B37/06 B32B37/1207 B32B2305/022 B32B2307/54 B32B2311/24 B32B2367/00 B32B2435/02 B65D77/2032 B65B7/167

US class: 1/1 220/270

[Classification Explorer](#)

Cited documents: WO9905041 A1, WO15119988 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08118569 A2, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO06108853 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO05009868 A1, WO0066450 A1, USRE39790 E, USRE33893 E, US9676513 BB, US9533805 BB, US9440768 BB, US9440765 BB, US9227755 BB, US9221579 BB, US9102438 BB, US9028963 BB, US8906185 BB, US8348082 BB, US8329288 BB, US8308003 BB, US8201385 BB, US8129009 BB, US8057896 BB, US8057896, US8025171 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA, US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6959832 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6669046 BA, US6627273 BB, US6602309 BB, US6548302 BA, US6544615 BB, US6461714 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6290801 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6082566 A, US6056141 A, US5976294 A, US5975304 A, US5975304 A, US5915577 A, US5887747 A, US5871112 A, US5860544 A, US5851333 A, US5776284 A, US5709310 A, US5702015 A, US5683774 A, US5669521 A, US5618618 A, US5615789 A, US5601200 A, US5598940 A, US5560989 A, US5560989 A, US5514442 A, US5513781 A, US5433992 A, US5265745 A, US5261990 A, US5226281 A, US5226281 A, US5217790 A, US5197618 A, US5178967 A, US5149386 A, US5131556 A, US5125529 A, US5106124 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5053457 A, US5015318 A, US5004111 A, US5004111 A, US4961986 A, US4960216 A, US4938390 A, US4934544 A, US4889731 A, US4867881 A, US4867881 A, US4863061 A, US4837061 A, US4818577 A, US4811856 A, US4801647 A, US4781294 A, US4771903 A, US4770325 A, US4762246 A, US4741791 A, US4735335 A, US4693390 A, US4666052 A, US4636273 A, US4596338 A, US4595116 A, US4588099 A, US4582735 A, US4556590 A, US4396655 A, US4266687 A, US4206165 A, US4133796 A, US3990603 A, US3964670 A, US3556816 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2017253373 AA, US2016185485 AA, US2015197385 AA, US2015053680 AA, US2014224800 AA, US2014186589 AA, US2014061196 AA, US2014001185 AA, US2013177263 AA, US2013121623 AA, US2013020328 AA, US2013020324 AA, US2012285920 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012067896 AA, US2012043330 AA, US2012000910 AA, US2011152821 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008145581 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006124577 AA, US2006068163 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005218143 AA, US2005208244 AA, US2005208242 AA, US2005048307 AA, US2005003155 AA, US2004211320 AA, US2004109963 AA, US2004043238 AA, US2004028851 AA, US2003196418 AA, US2003168423 AA, US2003087057 AA, US2002068140 AA, US2001031348 AA, US2001023870 AA, US1818379 A, TW201217237 A, MXP05002905, MX2010001867 A1, MX05002905 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP9110077 A2, GB2501967 A1, GB2353986 A1, GB1216991 A, FR2943322 A1, FR2916157 A1, EP2599735 A1, EP2292524 A1, EP2230190 A1, EP2014461 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1199253 B1, EP1199253 A2, EP1075921 A2, EP0915026 A1, EP0905039 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1, EP0135431 A1,

DE202009000245 U1

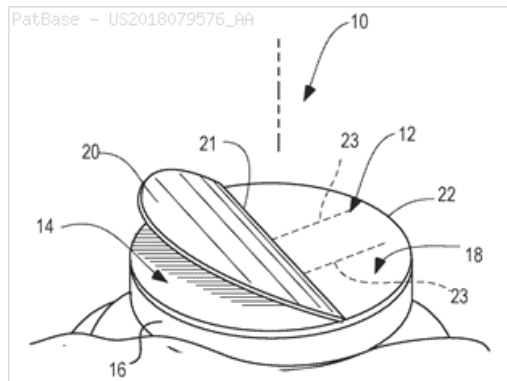
DE202009000245 U, DE10204281 A1,

DE102007022935 B4

DE102006030118 B3

CN1301289 A, CN101111437 A, CA2203744 AA, CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Abstract:
Tabbed sealing members with a robust tab structure having additional support under the tab and at a tab pivot or hinge joint.



31) Family number: 11282677 (US6378715B)

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Title: SEPARATING CLOSURE LINER WITH PRESSURE SENSITIVE ADHESIVE

Priority: US19960715210 19960917 CA19972214339 19970916

Family:	Publication number	Publication date	Application number	Application date
	AR009747 AA	20000503	AR1997P104155	19970910
	BRPI9702875 A	20000606	BR1997PI02875	19970915
	CA2214339 AA	19980317	CA19972214339	19970916
	CA2214339 C	20040127	CA19972214339	19970916
	EP0835818 A2	19980415	EP19970202702	19970902
	EP0835818 A3	19990811	EP19970202702	19970902
	MX9706730 A1	19980531	MX19970006730	19970904
	US6378715 BA	20020430	US19960715210	19960917

Probable Assignee: TRI SEAL HOLDINGS INC

Assignee(s):(std): TRI SEAL INT INC ; TRI SEAL HOLDINGS INC

Assignee(s): LEHMAN COMMERCIAL PAPER INC ; PLASTIC SPECIALTIES AND TECHNOLOGIES INVESTMENTS INC ; PLASTIC SPECIALTIES AND TECHNOLOGIES INC A DELWARE CORP ; PLASTIC SPECALITIES AND TECHNOLOGIES INC A DELWARE CORP ; HSBC BANK USA NATIONAL ASSOCIATION COLLATERAL AGENT AS ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT AS ; TRI SEAL INTERNATIONAL INC ; VERDEL ANATOLY ; US BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; TRI SEAL HOLDINGS INC A DELAWARE CORPORATON ; TPI ACQUISITION SUBSIDIARY INC A DELAWARE CORP ; TP ELM ACQUISITION SUBSIDIARY INC A DELAWARE CORP ; TKNI PLEX INC ; PURETEC DELAWARE CORP ; PLASTIC SPECALITIES AND TECHNOLOGIES INC A DELWARE ; NATVAR HOLDINGS LLC ; NATVAR HOLDINGS INC A DELAWARE CORP ; MORGAN GUARANTY TRUST CO OF NEW YORK ; HSBC BANK USA NATIONAL ASSOCIATION COLLATERAL AGENT ; HSBC BANK USA NATIONAL ASSOCIATION AS COLLATERAL A ; HSBC BANK USA COLLATERAL AGENT AS ; HSBC BANK USA AS COLLATERAL AGENT ; DISTRIBUTORS RECYCLING INC A DELWARE CORP ; BURLINGTON RESINS INC A DELAWARE CORP ; BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BMO HARRIS BANK NA ; BURGESS WALTER ; BURLINGTON RESINS INC ; CITICORP USA INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AG ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT A ; DISTRIBUTORS RECYCLING INC ; FINKELSTEIN HARVEY ; FLORES VICTOR ; HSBC BANK U AS COLLATERAL AGENT SA ; HSBC BANK USA ; JPMORGAN CHASE BANK ; MORGAN GUARANTY TRUST CO ; NATVAR HOLDINGS INC ; OCM TEKNI PLEX HOLDINGS II LP ; PLASTIC SPECIALTIES AND TECHNOLOGIES INC ; PLASTIC SPECIALTIES AND TECHNOLOGIES INC A DELWARE ; PLASTIC SPECIALTIES AND TECHNOLOGIES INVESTMENTS I ; PLASTIC SPECIALTIES AND TECHNOLOGIES INVESTMENTS INC A DELAWARE CORP ; PURETEC CORP ; TEKNI PLEX INC ; TP ELM ACQUISITION SUBSIDIARY INC ; TPI ACQUISITION SUBSIDIARY INC ; TRI SEAL INT

Inventor(s):(std): BURGESS WALTER ; FINKELSTEIN HARVEY ; FLORES VICTOR ; VERDEL ANATOLY

Inventor(s): VICTOR FLORES ; WALTER BURGESS ; ANATOLY VERDEL ; HARVEY FINKELSTEIN

Agent(s): ROBIC

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8-9): B65D41/04 B65D53/04 (Advanced/Invention); B65D41/04 (Core/Invention)

International class (IPC 1-7): B65D17/00 B65D39/00 B65D41/04 B65D51/14 B65D53/00 B65D53/04

CPC: Y02W30/807 B65D41/045

European class: B65D41/04D2

US class: 215/341 215/347 215/349

[Classification Explorer](#)

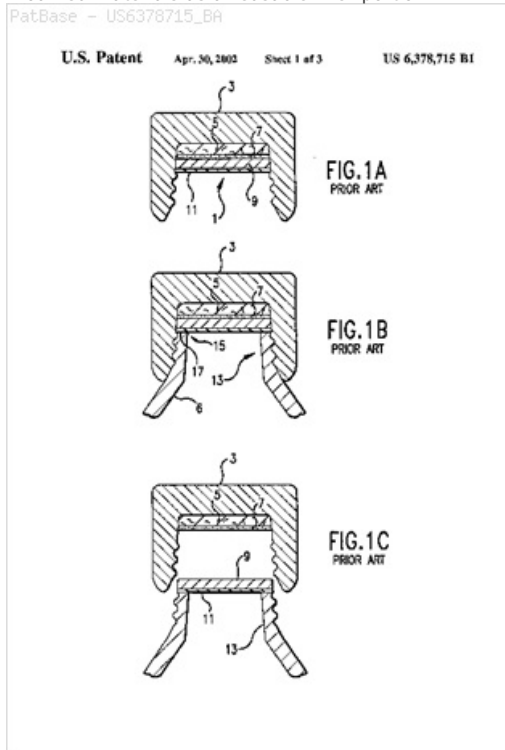
Cited documents: US5615789 A, US5601200 A, US5598940 A, US5433992 A, US5381913 A, US5197618 A, US5176271 A, US5092477 A, US4961986 A, US4917949 A, US4818577 A, US4754890 A, US4684554 A, US4596338 A, US4588465 A, US4588099 A, US4579240 A, US4418834 A, US4171084 A, US4013188 A, US3632004 A, EP0562649 A1, EP0530977 A2, DE4424666 A1,

Forward Citations: US9994357, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8906185, US8852725, US8746484, US8715825, US8703265, US8672168, US8522990, US8308003, US8201385, US8113367, US8057896, US7942281, US7850033, US7217454, US6902075, US6866926, US2012103988, US2011138742, US2011089177, US2010193463, US2010047552, US2009078671, US2008237238,

US2008233424, US2008231922, US2008197099, US2008169286, US2008121605, US2006151415, US2005263524, US2004043165, US2003196418, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10005598, US10000310, JP2007015161, EP1445209, EP1445209,

Abstract:

A separating closure liner comprises a laminate construction of a reusable liner portion and an inner seal portion, each separated by a light tack shearable adhesive. The light tack shearable adhesive enables the reusable liner portion to break away from the inner seal portion after it has been sealed to a container neck. The reusable liner portion remains in the closure of the container for sealing purposes. Use of the light tack shearable adhesive permits the use of polyolefin foamed materials as a reusable liner portion.



32) Family number: 37086723 (US2009304964A)

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Title: VESSEL CLOSING LAMINATE

Priority: EP20060111411 20060320 AU20070227488 20070316 WO2007US06595 20070316
US20090227573 20090529 US20120348842 20120112 AU20120238195 20121004

Family:	Publication number	Publication date	Application number	Application date
	AR059924 AA	20080507	AR2007P101086	20070316
	AT431303 E	20090515	AT20060111411T	20060320
	AU2007227488 AA	20070927	AU20070227488	20070316
	AU2007227488 BB	20120705	AU20070227488	20070316
	AU2012238195 AA	20121025	AU20120238195	20121004
	AU2012238195 BB	20140515	AU20120238195	20121004
	BRPI0709022 A2	20110621	BR2007PI09022	20070316
	CA2646951 AA	20080922	CA20072646951	20070316
	CA2646951 C	20151103	CA20072646951	20070316
	CN101636261 A	20100127	CN200780018432	20070316
	DE602006006791 D1	20090625	DE200660006791T	20060320
	EP1837288 A1	20070926	EP20060111411	20060320
	EP1837288 B1	20090513	EP20060111411	20060320
	EP1837288 B2	20170531	EP20060111411	20060320
	ES2326754 T3	20091019	ES20060111411T	20060320
	IN09516DN2008 A	20090320	IN2008DN09516	20081114
	IN281154 B	20170310	IN2008DN09516	20081114
	JP2009533279 T2	20090917	JP20090501463T	20070316
	MX2008012003 A1	20090219	MX20080012003	20070316
	NZ572512 A	20110729	NZ20070572512	20070316
	US2009304964 AA	20091210	US20070227573	20070316
	US2012107577 AA	20120503	US20120348842	20120112
	US8852725 BB	20141007	US20120348842	20120112
	WO07109113 A2	20070927	WO2007US06595	20070316
	WO07109113 A3	20090924	WO2007US06595	20070316

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s):(std): SELIG SEALING PRODUCTS INC ; SACHS VICTOR ; O BRIEN DAVID JOHN ; MCLEAN ANDREW FENWICK ; ILLINOIS TOOL WORKS

Assignee(s): ITW LTD ; ILLINOIS TOOL WORKS INC ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP

Inventor(s):(std): MCLEAN ANDREW FENWICK ; SACHS VICTOR ; VICTOR SACHS ; JOHN O BRIEN DAVID ; FENWICK MCLEAN ANDREW ; O BRIEN DAVID JOHN

Inventor(s): O BRIEN DAVID ; MCLEAN ANDREW ; DAVID JOHN O BRIEN ; ANDREW FENWICK MCLEAN ; O'BRIEN DAVID JOHN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BERESKIN AND PARR LLP; BERESKIN AND PARR LLP SENCRL SRL; JONES HELEN MM; GILL JENNINGS AND EVERY LLP; ROPES AND GRAY LLP; FITCH EVEN TABIN AND FLANNERY LLP

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 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 MG MK ML MN MR MT MW MX MY 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8-9): B29C47/06 B32B1/00 B32B1/02 B32B1/08 B32B27/00 B32B27/10 B32B29/06 B32B3/26 B32B37/00 B32B37/02 B32B37/14 B32B37/15 B32B5/18 B32B7/02 B32B7/12 B32B9/00 B41M5/00 B65D39/00 B65D41/00 B65D41/32 B65D51/00 B65D51/20 B65D53/00 B65D53/04 B65D65/40 C09J5/00 (Advanced/Invention); B29C47/06 B32B1/00 B32B27/00 B32B27/10 B32B29/00 B32B5/18 B32B7/12 B65D51/18 B65D53/00 B65D65/40 (Core/Invention)

International class (IPC 1-7): B32B29/06

CPC: Y10T428/249982 Y10T428/249987 Y10T428/249991 B65D51/20 B65D53/04 B65D2251/0015 B65D2251/0093 Y10T428/1376 Y10T428/24802 Y10T428/24826

European class: B65D51/20 B65D53/04 L65D251/00Y2D L65D251/00Y6M

US class: 156/182 156/244.13 156/324 156/324S 156/364 215/232 215/347 220/327 220/327S 428/195.1 428/195.100P 428/198 428/317.1 428/318.4 428/318.400S 428/319.3 428/319.300S 428/36.5

JP class F-Term: 3E084 3E084/AA04 3E084/AA12 3E084/BA01 3E084/CA01 3E084/DA01 3E084/DB12 3E084/FA09 3E084/FB01 3E084/FD13 3E084/GA01 3E084/GB01 3E084/GB08 3E084/GB12 3E084/HA02 3E084/HB07 3E084/HC02 3E084/HC03 3E084/HC04 3E084/HC08 3E084/HD01 3E084/LA17 3E084/LB02 3E084/LB07 3E086 3E086/AB02 3E086/AC07 3E086/AC15 3E086/AD24 3E086/BA04 3E086/BA13 3E086/BA14 3E086/BA15 3E086/BA24 3E086/BB41 3E086/BB51 3E086/BB57 3E086/CA01 3E086/CA28 4F100 4F100/AB33 4F100/AJ11 4F100/AK01 4F100/AK07 4F100/AK41 4F100/AK42 4F100/AK48 4F100/BA03 4F100/BA04 4F100/DA03 4F100/DG02 4F100/DG10 4F100/DJ01 4F100/EH46 4F100/GB23 4F100/JD14 4F100/JK06

JP class F-Index: B32B27/00/H B32B27/10 B32B5/18 B65D53/00/A B65D53/00/100 B65D53/04/A B65D53/04/100 B65D65/40/A

[Classification Explorer](#)

Cited documents: WO9605055 A1, WO9605055 A1, WO11039067 A1, WO10115811 A1, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO07109113 A2, WO06108853 A1, WO06099260 A1, WO06021291 A1, WO06018556 A1, WO04096428 A1, WO0066450 A1, USRE39790 E, US8329288 BB, US7838109 BB, US7819266 BB, US7740927 BB, US7713605 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6602309 BB, US6467513 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6277478 BA, US6194042 BA, US6139931 A, US6131754 A, US6082566 A, US5871112 A, US5712042 A, US5702015 A, US5702015 A, US5669521 A, US5615789 A, US5601200 A, US5598940 A, US5381914 A, US5381913 A, US5197618 A, US5178967 A, US5149386 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US4961986 A, US4961986 A, US4837061 A, US4818577 A, US4772650 A, US4741791 A, US4206165 A, US2011091715 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010030180 AA, US2010009162 AA, US2009208729 AA, US2009078671 AA, US2008156443 AA, US2008103262 AA, US2008026171 AA, US2007298273 AA, US2007003725 AA, US2006151415 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005048307 AA, US2004247749 AA, US2004109963 AA, US2003196418 AA, US2003196418 AA, US2002068140 AA, TW194965, MX5002002905 A1, MX1001867 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP6166151 A2, JP4239456 A2, JP2006069601 A2, JP2004315035 A2, JP2003312730 A2, JP2003165566 A2, JP2003037310 A2, JP2002037310 A2, JP2000255621 A2, FR2943322 A1, FR2916157 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1834893 A1, EP1814744 A1, EP1472153 B1, EP1472153 A1, EP1472153, EP1181217 B1, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 A1, EP0668221 A1, EP0548999 A1, DE9108868 U1, DE9108868 U1, DE9108868 U, DE9108868, DE202009000245 U1

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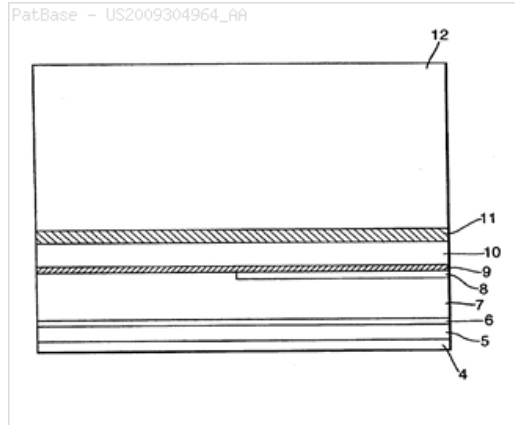
DE102007022935 B4

DE102006030118 B3

CN2279333 Y, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations: WO12152622, USRE46842, US9994357, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440766, US9440765, US9278793, US9278506, US9227755, US9221579, US9193513, US9102438, US9028963, US8937550, US8906185, US8852725, US8746484, US8715825, US8703265, US8674834, US8522990, US8308003, US8201385, US8057896, US2014117046, US2012228297, US2012217244, US2011253715, US2010193463, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10105731, US10005598, US10000310, KR101875176, EP3378799, EP2933204, EP2933204, EP2778090, EP2723649, EP2723649, EP2723649, EP1935636,

Abstract:
A vessel closing laminate comprising: a seal laminate (1) comprising a bottom subassembly of layers including a foil layer (5); and a seal substrate attached to the uppermost layer of the bottom subassembly of layers wherein the seal substrate has a bottom foam layer (2) and a top plastic material layer (10) and further includes a free tab (50) lying wholly within the circumference of the seal; a wax layer (11) on top of the plastic material layer of the seal substrate; and an absorbent liner (12) adhered to the plastic layer of the seal substrate by means of the wax layer.



33) Family number: 54742746 (US2015083723A)

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Title: CONTAINER SEALING MEMBER WITH PROTECTED SECURITY COMPONENT AND REMOVAL TAB
Priority: US20120608383P 20120308 US20130383123 20130308 WO2013US29928 20130308
Family:

Publication number	Publication date	Application number	Application date
BR112014022200 A2	20190924	BR20141122200	20130308
CA2866378 AA	20140904	CA20132866378	20130308
EP2822871 A1	20150114	EP20130757072	20130308
EP2822871 A4	20151209	EP20130757072	20130308
MX2014010839 A1	20160706	MX20140010839	20130308
US2015083723 AA	20150326	US20130383123	20130308
US10259626 BB	20190416	US20130383123	20130308
WO13134665 A1	20130912	WO2013US29928	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): ROBERT WILLIAM THORSTENSEN WOLL ; THORSTENSEN WOLL ROBERT WILLIAM
Inventor(s): THORSTENSEN WOLL ROBERT WILLIAM107 SANDRINGHAM DRIVEBARRIEO1L4N 0Y9CA
Agent(s): GOWLING LAFLEUR HENDERSON LLP; 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 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

International class (IPC) B65D51/20 B65D51/22 B65D53/04 B65D55/02 (Advanced/Invention)
8-9):

International class (IPC) B65D51/22
1-7):

CPC: B65D51/20 B65D55/026 B65D51/22

US class: 220/258.3 220/259.3

[Classification Explorer](#)

Cited documents: WO9702997 A1, WO9308084 A1, WO8902402 A1, WO12172029 A1, WO11039067 A1, WO10115811 A1, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08118569 A2, WO08039350 A2, WO08027036 A1, WO08027029 A2, WO07109113 A2, WO06108853 A1, WO06099260 A1, WO06021291 A1, WO06018556 A1, WO05100186 A1, WO0066450 A1, USRE39790 E, US8703265 BB, US8522990 BB, US7838109 BB, US7819266 BB, US7740927 BB, US7713605 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7224528 BB, US7182475 BB, US7144617 BB, US7128210 BB, US7064897 BB, US7029745 BB, US7012032 BB, US7005178 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6775036 BB, US6767425 BB, US6737154 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6659507 BB, US6602309 BB, US6531230 BA, US6494491 BA, US6458302 BA, US6378715 BA, US6351537 BA, US6312776 BA, US6284337 BA, US6258425 BA, US6197396 BA, US6194042 BA, US6139931 A, US6131754 A, US6120882 A, US6082566 A, US5702015 A, US5669521 A, US5656360 A, US5615789 A, US5601200 A, US5598940 A, US5560989 A, US5544770 A, US5514442 A, US5510171 A, US5319475 A, US5265745 A, US5226281 A, US5218472 A, US5197618 A, US5178967 A, US5169707 A, US5160767 A, US5153042 A, US5149386 A, US5135262 A, US5128779 A, US5098495 A, US5084143 A, US5071710 A, US5057365 A, US5055150 A, US5015318 A, US5004111 A, US4994314 A, US4980222 A, US4961986 A, US4934544 A, US4892209 A, US4856857 A, US4840281 A, US4837061 A, US4767016 A, US4741791 A, US4650082 A, US4579240 A, US4514248 A, US4438850 A, US4266687 A, US4206165 A, US4013188 A, US2012228297 AA, US2012070636 AA, US2011091715 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010196610 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010030180 AA, US2010009162 AA, US2009208729 AA, US2009078671 AA, US2008257850 AA, US2008233424 AA, US2008231922 AA, US2008169286 AA, US2008156443 AA, US2008103262 AA, US2008026171 AA, US2007298273 AA, US2007206249 AA, US2007195392 AA, US2007183047 AA, US2007058227 AA, US2006151415 AA, US2006124577 AA, US2006003122 AA, US2006003120 AA,

US2006000545 AA, US2005208242 AA, US2005048307 AA, US2004209028 AA, US2004109963 AA, US2002068140 AA, TW194965 Y, MXPA05002905, MX2010001867 A1, MX05002905 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP2004315035 A2, JP2000255621 A2, GB2298391 A1, GB2273492 A1, GB2241230 A1, FR2943322 A1, FR2916157 A1, FR2754375 A1, EP2292524 A1, EP2230190 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1834893 A1, EP1445209 B1, EP0915026 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1,

DE202009000245 U1

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DE102007022935 B4

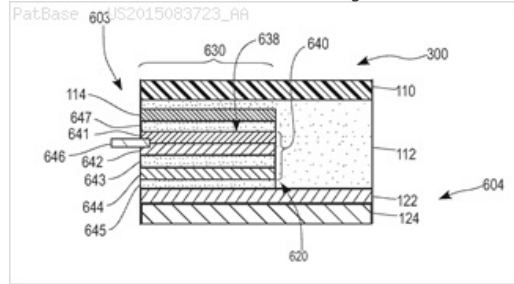
DE102006030118 B3

BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations: EP3626649,

Abstract:

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.



34) Family number: 224757 (DE1482575A1)

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Title: VERSCHLUSSDECKEL CLOSURE LID (Machine translation)

Priority: DE1965P036582 19650421

Family:	Publication number	Publication date	Application number	Application date
	DE1482575 A1	19690116	DE19651482575	19650421

Probable Assignee: POLESKA KLAUS

Assignee(s):(std): POLESKA KLAUS

International class (IPC 8-9): B65D41/04 B65D51/20 (Advanced/Invention); B65D41/04 B65D51/18 (Core/Invention)

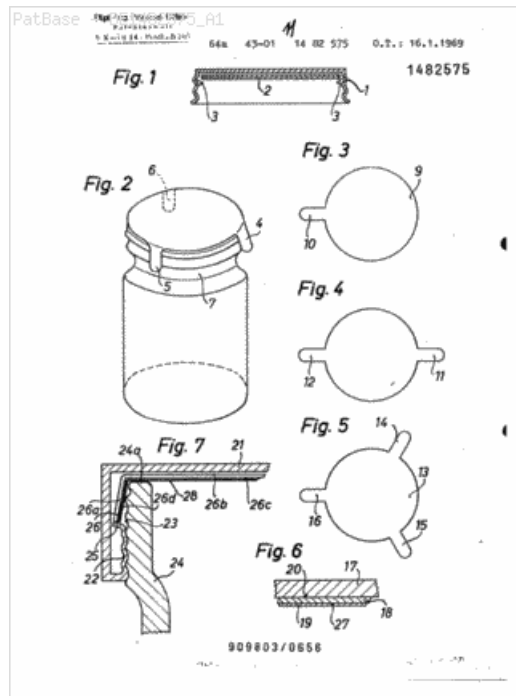
International class (IPC 1-7): B65D51/20 B65D53/04

CPC: B65D41/045 B65D51/20 B65D2251/0015 B65D2251/0018 B65D2251/0093 B65D2577/205

European class: B65D41/04D2 B65D51/20 B65D51/22 L65D251/00Y2D L65D251/00Y2F L65D251/00Y6M L65D577/20M1

[Classification Explorer](#)

Forward Citations: WO10115811, FR2794104, FR2715637, FR2695105, EP2069214, EP2069214, EP0717710, EP0717710, EP0697345, EP0697345, EP0667299, EP0148527, EP0148527, EP0072973, DE4424666, DE3920324, DE102009016312, DE102008020472, DE102008020472, DE102007014084,



35) Family number: 15505759 (JP2001063741A)

© PatBase

Title: CONTAINER
Priority: JP19990244532 19990831
Family:

Publication number	Publication date	Application number	Application date
JP2001063741 A2	20010313	JP19990244532	19990831

Probable Assignee: YOSHINO KOGYOSHO CO LTD
Assignee(s):(std): YOSHINO KOGYOSHO CO LTD
Inventor(s):(std): IIZUKA SHIGEO ; ABE TAKAYUKI

International class (IPC 8-9): B65D41/44 (Advanced/Invention);
B65D41/32 (Core/Invention)

International class (IPC 1-7): B65D41/44

JP class F-Term: 3E084 3E084/AA03 3E084/AA12 3E084/AA24 3E084/BA03 3E084/BA08 3E084/CA01 3E084/CB04
3E084/CC03 3E084/DA01 3E084/DB12 3E084/DC03 3E084/FA09 3E084/FB01 3E084/FD13 3E084/GA04
3E084/GB04 3E084/GB08 3E084/GB17

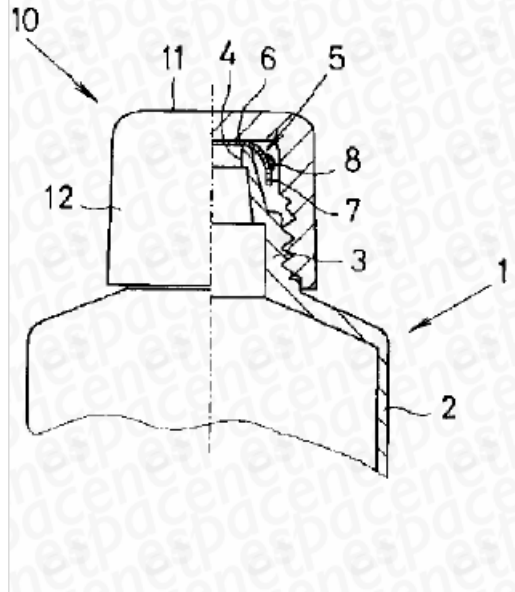
JP class F-Index: B65D41/44

[Classification Explorer](#)

Forward Citations: JP2012522694,

Abstract:

PROBLEM TO BE SOLVED: To provide a tab piece which is attached to a sheet-form thin plate in a manner to be easy to grip, and in such a manner that even a visually handicapped person can easily find the tab piece, in a container wherein on the upper surface of a neck section, the sheet-form thin plate is peelably affixed to close the upper surface of the neck section. **SOLUTION:** By providing a small protruding section 8 on a tab piece 7, a finger tip is prevented from slipping by the small protruding section so that the tab piece 7 can be surely gripped. Also, this container is formed in such a manner that even a visually handicapped person can easily find the tab piece 7 with the small protruding section 8 as a cue.

**36) Family number: 30984778** (US6974045B)

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Title: SEALING DISC AND FILM COMPOSITE FOR A CLOSURE OF A CONTAINER

Priority: DE19991020586 19990504 DE19991092508 19990504 DE20005003653 20000503
WO2000EP03955 20000503

Family:	Publication number	Publication date	Application number	Application date
	AT249374 E	20030915	AT20000927127T	20000503
	AU200045607 A1	20001117	AU20000045607	20000503
	AU200045607 A5	20001117	AU20000045607D	20000503
	AU760380 B2	20030515	AU20000045607	20000503
	BRPI0010251 A	20020108	BR2000PI10251	20000503
	CA2377850 AA	20011220	CA20002377850	20000503
	CA2377850 C	20080708	CA20002377850	20000503
	CN1124966 C	20031022	CN20008007142	20000503
	CN1354724 A	20020619	CN20008007142	20000503
	CZ20013863 A3	20020814	CZ20010003863	20000503
	DE19920586 A1	20001116	DE19991020586	19990504
	DE50003653 D1	20031016	DE20005003653	20000503
	EA003180 B1	20030227	EA20010001182	20000503
	EA200101182 A1	20020627	EA20010001182	20000503
	EE200100569 A	20021216	EE20010000569	20000503
	EP1181217 A1	20020227	EP20000927127	20000503
	EP1181217 B1	20030910	EP20000927127	20000503
	ES2200875 T3	20040316	ES20000927127T	20000503
	HK1046260 A1	20040611	HK20020107842	20021030
	HK1046260 B	20040611	HK20020107842	20021030
	HR20010805 A2	20021231	HR20010000805	20011030
	HU0201882 AB	20020928	HU20020001882	20000503
	IL146123 A0	20020725	IL20000146123	20000503
	JP2002543008 T2	20021217	JP20000615298T	20000503
	MXPA01010943 A1	20021107	MX2001PA10943	20000503
	NO20015353 A	20011101	NO20010005353	20011101
	NO20015353 A0	20011101	NO20010005353	20011101
	NO20015353 L	20011101	NO20010005353	20011101
	NZ514967 A	20030328	NZ20000514967	20000503
	PL350614 A1	20030127	PL20000350614	20000503
	SK200101580 A5	20020404	SK20010001580	20000503
	UA64027 C2	20020315	UA20010117508	20000503
	UA64027 C2	20020315	UA20011107508	20000503
	US6974045 BA	20051213	US20020009429	20020522
	WO0066453 A1	20001109	WO2000EP03955	20000503
	YU75801 A	20030228	YU20010000758	20000503
	ZA200109066 A	20021030	ZA20010009066	20011102

Probable Assignee: ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH

Assignee(s):(std): ALFELDER KUNSTSHTOFFWERKE HERM ; ALFELDER KUNSTSTOFFW MEYER H ; ALFELDER KUNSTSTOFFWERKE HERMMEYER GMBH ; WIENING HEINZ RUDOLF ; TROMBACH HORST ; ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH

Assignee(s): ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH HILDESHEIMER STRASSE 78 ; ALFELDER KUNSTSTOFFWERKE HERM ; ALFELDER KUNSTSHTOFFWERKE HERM MAYER GMBH ; ALFELDER KUNSTSHTOFFWERKE HERMMAYER GMBH

Inventor(s):(std): WIENING HEINZ RUDOLF ; WIENING HEINZ RUDOLF ; WENING H R ; TROMBACH HORST ; TROMBACH H ; HORST TROMBACH ; HEINZ RUDOLF WIENING

Inventor(s): H R WENING ; H TROMBACH ; HEINZ RUDOLF WIENING

Agent(s): FB RICE PTY LTD; RIDOUT AND MAYBEE LLP; SLATER AND MICHAELSON

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM 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 MA 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 TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8-9): B65D B65D17/34 B65D51/20 B65D53/00 B65D53/04 B65D53/08 B65D77/20 (Advanced/Invention); B65D53/00 (Advanced/Non-invention); B65D17/28 B65D51/18 B65D53/00 B65D77/10 (Core/Invention); B65D (Subclass/Invention)

International class (IPC 1-7): B65D17/34 B65D41/04 B65D51/20 B65D51/22 B65D53/00 B65D53/04 B65D53/08 B65D65/40 B65D77/20

CPC: B65D51/20 B65D2251/0015 B65D2251/0093

European class: B65D51/20 L65D251/00Y2D L65D251/00Y6M

US class: 215/232 215/305 215/347 215/349 220/258.2 220/359.2 220/359.3

JP class F-Term: 3E084 3E084/BA03 3E084/BA06 3E084/BA08 3E084/BA09 3E084/CA01 3E084/CB04 3E084/CC02 3E084/CC03 3E084/CC08 3E084/DA01 3E084/DB12 3E084/FB01 3E084/FD13 3E084/GA04 3E084/GB04 3E084/GB08 3E084/GB17 3E084/HA01 3E084/HB01 3E084/HC08 3E084/HD01

JP class F-Index: B65D53/00/A B65D53/00/100 B65D53/04/Z

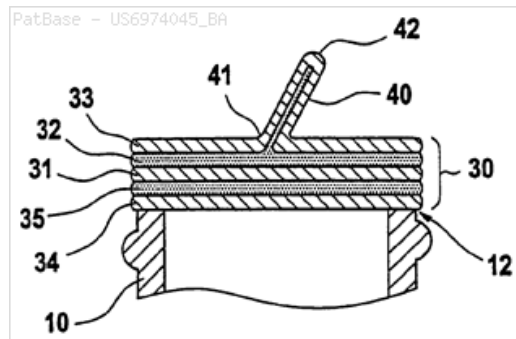
[Classification Explorer](#)

Cited documents: US6104013 A, US6082568 A, US6082566 A, US5915577 A, US5702015 A, US5669521 A, US5560989 A, US5514442 A, US5433992 A, US5381913 A, US5265745 A, US5149386 A, US5004111 A, US4960216 A, US4934544 A, US4917949 A, US4771903 A, US4754890 A, US4724026 A, US4596338 A, US4595434 A, US4588465 A, US4588099 A, US4579240 A, US4044941 A, US4017704 A, US3815314 A, US3767076 A, US3690909 A, US2986322 A, US2937481 A, JP4503650 T2, FR2463468 A1, EP0717710 B1, EP0717710, EP0697345 A2, EP0534949 B1, EP0534949 A1, EP0408217 A1, EP0395660 B1, EP0395660 A1, DE9410934 U1, DE3920324 A1, DE3224342 A1, DE3103542 C2, DE2133914 A1, DE1175599 B,

Forward Citations: WO12152622, WO12079971, WO10115811, WO04101368, US9994357, US9834339, US9815589, US9676513, US9624008, US9533805, US9440768, US9440766, US9440765, US9302796, US9278793, US9278506, US9227755, US9221579, US9193513, US9156584, US9132947, US9102438, US9028963, US8906185, US8852725, US8844597, US8746484, US8715825, US8703265, US8646634, US8522990, US8378133, US8308003, US8247051, US8201385, US8057896, US7766183, US7677403, US2018079576, US2015034647, US2014076898, US2013088103, US2012048825, US2012041220, US2011138742, US2011089177, US2010193463, US2010047552, US2009057326, US2008233424, US2008231922, US2008169286, US2007031673, US2007028704, US2006151415, US2005247712, US10604315, US10556732, US10259626, US10196174, US10150590, US10150589, US10005598, US10000310, RU191443, JP6347904, EP2651635, EP1837288, EP1628887, EP1628887, DE102010054494, DE102009016312, DE102007014084, DE10034298, CN105523275, CN104169185, CN104169185, CN103625765, CN103625765,

Abstract:

A sealing disc and a film composite for a container closure is provided, for use on a container with an opening bounded by a peripheral edge. The film composite includes a plurality of layers. An adhesive layer is arranged at least over a joining surface between the upper layer and the underlying layer.



37) Family number: 14946838 (US6174274B)

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Title: METHOD AND APPARATUS FOR CREATING PREFORMED BONDED PULL TABS OVER A RESEAL LINER

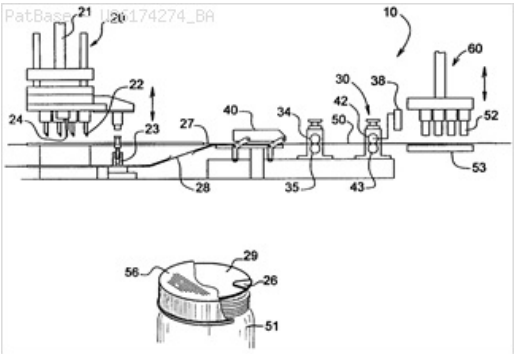
Priority: US19970999596 19971008

Family:

Publication number	Publication date	Application number	Application date
GB2330134 A1	19990414	GB19980021613	19981006
GB2330134 B2	20011128	GB19980021613	19981006
GB9821613 A0	19981125	GB19980021613	19981006
US6174274 BA	20010116	US19970999596	19971008

Probable Assignee: REXAM HEALTHCARE PACKAGING INC
Assignee(s):(std): REXAM PLASTICS INC
Assignee(s): REXAM HEALTHCARE PACKAGING INC
Inventor(s):(std): WEINERT WILLIAM R ; HAWKINS RONNIE LEE
Inventor(s): WILLIAM R WEINERT ; RONNIE LEE HAWKINS
Agent(s): JOHN F SALAZAR; THOMAS B MCGURK; MIDDLETON AND REUTLINGER
International class (IPC 8-9): B21D51/46 B65D41/04 B65D51/20 (Advanced/Invention); B21D51/38 B65D41/04 B65D51/18 (Core/Invention)
International class (IPC 1-7): B21D51/46 B31B1/60 B65D51/20 B65D53/04
CPC: Y10S493/963 B65D51/20 B21D51/46 B65D41/045 B65D2251/0015 B65D2251/0093
European class: B21D51/46 B65D41/04D2 B65D51/20 L65D251/00Y2D L65D251/00Y6M
US class: 493/110 493/346 493/357 493/363 493/75 493/77 493/80 493/81 493/963 53/133.7
[Classification Explorer](#)
Cited documents: WO8902402 A1, USRE33886 E, US5797509 A, US5108356 A, US5062340 A, US4822326 A, US4676047 A, US4610649 A, US4526562 A, US4410089 A, US3961566 A, US3656273 A, GB2081690 A1, EP0905039 A1, EP0404153 A1,
Forward Citations: WO13017754, WO12152622, WO10115811, WO08113855, US9440766, US9333605, US8650736, US8517201, US8225954, US8080118, US7960001, US7819266, US7740927, US7713605, US7648764, US7588525, US6908001, US6848235, US6527687, US201223128, US2010176133, US2010116410, US2008092485, US2008073308, US2007007229, US2007003725, US2006124578, US2006124577, US2006124574, US2004099630, US2003182901, JP2012522694, ITBO20120228, EP2554487, EP2045194, EP1710167, EP1710167, EP1710167, DE102011106768, DE102011106768, DE102009016312,

Abstract:
A method and apparatus for formation of a preformed bonded pull tab over a reseal liner is disclosed. The pull tab seal layer of material is bonded together with a reseal liner layer of material for insertion into a closure. The pull tab on the pull tab liner seal is formed prior to combination of the two layers and is folded backwards between the two layers of material. Thus, after combining the two layers, punching out the closure liner and insertion into the closure, the reseal liner is separated from the pull tab seal and the pull tab seal is adhered to the rim of the container. Only one punch press step is required for forming the closure and container seals and insertion of the members into the closure. By forming the pull tab prior to combining the two layers, an assembly of the pull tab and reseal liner is made more efficient and less time consuming.



38) Family number: 52348891 (US2014076898A)

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Title: SEALING DISC COMPRISING A TAB
Priority: DE201110101424 20110512 DE201110106768 20110705 WO2012EP58009 20120502
Family:

Publication number	Publication date	Application number	Application date
DE102011106768 A1	20121115	DE201110106768	20110705
DE102011106768 B4	20181004	DE201110106768	20110705
EP2707302 A1	20140319	EP20120719951	20120502
US2014076898 AA	20140320	US20120116610	20120502
US9440766 BB	20160913	US20120116610	20120502
WO12152622 A1	20121115	WO2012EP58009	20120502

Probable Assignee: ALFELDER KUNSTSTOFFW MEYER H
Assignee(s):(std): ALFELDER KUNSTSTOFFW MEYER H ; ALFELDER KUNSTSTOFFWERKE HERM MEYER GMBH ; WIENING HEINZ RUDOLF
Inventor(s):(std): ROTHWEILER PETER ; WIENING HEINZ RUDOLF
Agent(s): EINSEL MARTIN; SALTER AND MICHAELSON
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 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
International class (IPC 8-9): B32B15/04 B32B15/20 B32B27/06 B32B27/36 B32B3/26 B65D17/00 B65D41/04 B65D53/04 B65D8/06 (Advanced/Invention)
CPC: B32B3/263 B32B15/046 B32B15/20 B32B27/065 B32B27/36 B32B2266/025 B32B2307/304 B32B2307/31 B32B2435/00 B65D41/045 B65D53/04 B65D2251/0015 B65D2251/0093 B65D2577/205 B65D17/4012
European class: B65D41/04D2 B65D53/04 L65D251/00Y2D L65D251/00Y6M L65D577/20M1

US class: 1/1 220/269

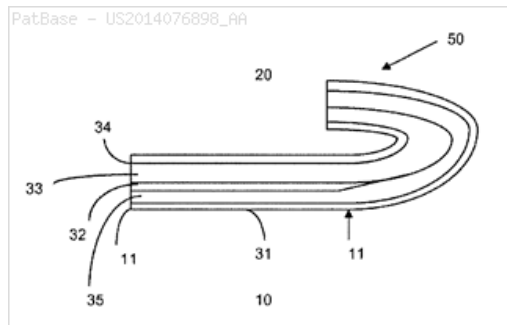
[Classification Explorer](#)

Cited documents: WO10115811 A1, US7798359 BA, US6974045 BA, US5492077 A, US3786954 A, JP2000191021 A2, GB2330134 A1, EP2230190 A1, EP2045194 B1, EP2045194 A1, EP1837288 A1, EP1454840 A1, EP0717710 B1, EP0717710 A1, EP0668221 B1, EP0668221 A1, EP0408217 A1, DE3920324 A1, DE19920586 A1, DE102007014084 B3

Forward Citations: WO18200662, US9994357, US9834339, US9834331, US9815589, US9676513, US9624008, US9533805, US9440768, US9440765, US9278793, US9227755, US9221579, US9193513, US9102438, US9028963, US8715825, US2015122818, US10604315, US10556732, US10196174, US10150590, US10150589, US10000310, CN104443742,

Abstract:

The invention relates to a sealing disc for a container closure used for a container having a mouth delimited by a circumferential edge. The sealing disc is composed of a plurality of layers with an edge. Before the container is opened for the first time, at least one group of layers tightly closes the mouth of said container. One of the layers is a metallic layer that can be heated by induction. The other layers are non-metallic and unable to be directly heated by induction. The group of layers can be sealed, using a sealing layer, on the circumferential edge of the mouth. One of the layers is composed of a thermally insulating material. The sealing disc has at least one grip tab. The grip tab is formed from just one or more of the layers of the layer group. The surfaces of the layers that form said grip tab project beyond the edge of the metallic, induction-heatable layer of the group for the length of the surface of the grip tab. Said grip tab is formed only from the layer composed of thermally insulating material, or from said layer and one or more of the other non-metallic layers that are unable to be directly heated by induction. The grip tab is doubled over on the uppermost layer of the sealing disc.



39) Family number: 30455912 (US2001000602A)

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Title: SNAP-ON, SCREW-OFF CAP AND CONTAINER NECK

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
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	WO1997US17340	19970926	US19970956633	19971023	US19980071625	19980501
	WO1999US07951	19990412	US19990356063	19990719	US20000746882	20001222
	US20020210716	20020730	US20030668780	20030922	US20050057952	20050214

Family:

Publication number	Publication date	Application number	Application date
AU199228600 A1	19930503	AU19920028600	19921006
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AU199516602 A1	19960216	AU19950016602	19950117
AU199745044 A1	19980424	AU19970045044	19970926
AU199935546 A1	19991123	AU19990035546	19990412
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CA2330924 AA	20001031	CA19992330924	19990412
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EP1107919 A4	20030507	EP19990917417	19990412
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GB2289044 A1	19951108	GB19950011099	19921006
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GB2290782 A1	19960110	GB19950017979	19940310
GB2290782 B2	19971015	GB19950017979	19940310

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GB2295145 B2	19960911	GB19950025299	19921006
GB2299329 A1	19961002	GB19960011601	19951208
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US2004055991 AA	20040325	US20030668780	20030922
US2005269282 AA	20051208	US20050057952	20050214
US5190178 A	19930302	US19900565638	19900809
US5213224 A	19930525	US19910772945	19911008
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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

Probable Assignee: PORTOLA PACKAGING INC

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

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

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

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

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

International class (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 class (IPC 1-7): B65B7/28 B65D B65D1/02 B65D39/00 B65D41/00 B65D41/16 B65D41/17 B65D41/22 B65D41/34 B65D41/46 B65D41/47 B65D41/48 B65D51/00 B65D51/18 B65D55/08 B67B3/00 B67B3/20

CPC: B29C65/58 B29L2031/7158 B29C65/366 B29C66/5346 B29C65/3644 B29C65/3656 B29C65/368 B29C66/112 B29C66/131 B29C66/24221 B29C66/53461 B29C66/72321 B65D41/47 B65D51/20 B29C65/561 B29C66/1122 B29C66/542 B29C66/545 B29C66/8322 B29C66/83423 B65B7/2878 B67B3/00 B67B3/20 B67B3/2046 B65D2401/15 B65D2401/25 B65D2401/35 B29C66/65 B65D1/023 B65D41/0421 B65D41/0471 B65D41/17 B65D41/34 B65D41/3404 B65D41/3409 B65D41/485 B65D2251/0015 B65D2251/0093 B65D2501/0081 B65D2577/205

European class: B29C65/0274 B29C65/36B12 B29C65/36F2F B29C66/534 B29C66/65 B29C66/72321 B65B7/28F4 B65D1/02D1 B65D41/04B1A B65D41/04E B65D41/17 B65D41/34 B65D41/34A B65D41/34A1 B65D41/47 B65D41/48B B65D51/20 B67B3/00 B67B3/20 B67B3/20G2 L65D101/00A3 L65D101/00A3C L65D101/00A3E L65D251/00Y2D L65D251/00Y6M L65D501/02Y9 L65D577/20M1

US class: 156/69 215/232 215/254 215/256 215/307 215/318 215/32 215/320 215/329 215/332 215/350 215/351 215/354 215/44 215/45 220/258 220/258.2 220/270 220/276 220/296 220/359 53/478 53/485 53/490

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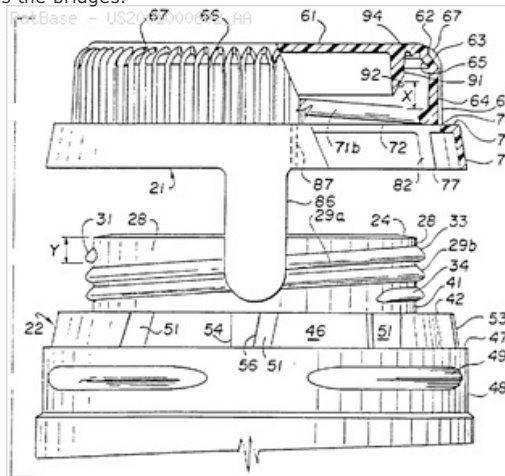
Cited documents: US5775528 A, US5690243 A, US5687866 A, US5664694 A, US5630520 A, US5593055 A, US5560504 A, US5480045 A, US5456376 A, US5433992 A, US5415306 A, US5385252 A, US5383558 A, US5373955 A, US5307946 A, US5307945 A, US5285912 A, US5284265 A, US5267661 A, US5224616 A, US5213224 A, US5197621 A, US5190178 A, US5184746 A, US5176270 A, US5152416 A, US5147060 A, US5129538 A, US5129530 A, US5121845 A, US5105960 A, US5099998 A, US5052568 A, US5050754 A, US5027964 A, US5020683 A, US5009998 A, US5004111 A, US4989740 A, US4981230 A, US4981229 A, US4961986 A, US4946055 A, US4934546 A, US4930647 A, US4917949 A, US4913299 A, US4911316 A, US4893718 A, US4872571 A, US4863061 A, US4848613 A, US4844268 A, US4844250 A, US4828128 A, US4824128 A, US4815617 A, US4798301 A, US4796770 A, US4784296 A, US4754890 A, US4744478 A, US4739891 A, US4722447 A, US4700860 A, US4699285 A, US4691834 A, US4625876 A, US4625875 A, US4609115 A, US4605138 A, US4605136 A, US4593830 A, US4567992 A, US4562930 A, US4561553 A, US4548329 A, US4540102 A, US4534480 A, US4534479 A, US4531649 A, US4530437 A, US4522308 A, US4498597 A, US4496066 A, US4494664 A, US4489843 A, US4484687 A, US4448631 A, US4448319 A, US4423820 A, US4402451 A, US4402415 A, US4399926 A, US4385708 A, US4354609 A, US4305517 A, US4301937 A, US4299330 A, US4298129 A, US4296871 A, US4278129 A, US4269320 A, US4241841 A, US4237360 A, US4202455 A, US4187070 A, US4180175 A, US4177906 A, US4078700 A, US4057160 A, US4037748 A, US4017704 A, US4003488 A, US3997077 A, US3980195 A, US3974931 A, US3963140 A, US3940004 A, US3928109 A, US3909326 A, US3902621 A, US3901404 A, US3901403 A, US3899279 A, US3885696 A, US3874540 A, US3844443 A, US3837518 A, US3784038 A, US3767076 A, US3695475 A, US3367524 A, US3223269 A, US3181725 A, US3163308 A, US3022917 A, US2181340 A, US1630687 A, GB2265892 A1, GB2264108 A1, GB2116155 A1, GB2114553 A1, GB2105693 A1, GB2103990 A1, GB2103909 A1, FR2450755 A1, FR2439138 A1, EP0118267 A2, DE2356007 A1, DE11668 A, DE1154369 B, CA812597 A,

Forward Citations: WO9962770, WO9957033, WO9926680, WO9926680, WO9923002, WO9903747, WO9814373, WO9747528, WO9735773, WO9735773, WO19094407, WO19007913, WO17211703, WO17194649, WO17060061, WO17052165, WO14154255, WO13063063, WO11100394, WO10134931, WO10115811, WO09136836, WO08027044, WO07073064, WO06118477, WO05070781, WO05070781, WO04085257, WO03050033, WO0236451, WO0176964, WO0155000, WO0056617, USRE37243, USD883783, USD883738, USD883737, USD876905, USD876236, USD875525, USD871905, USD860716, USD836389, USD836388, USD835937, USD805395, USD799925, USD773930, USD771489, USD636673, USD636672, USD633790, USD633383, USD630943, USD628894, USD625190, USD608638, USD591101, USD584925, USD584569, USD567086, USD545618, USD538654, USD537719, USD535189, USD531505, USD530205, USD529804, USD528917, USD519373, USD517322, USD516911, USD515923, USD515922, USD513586, USD510523, USD510269, USD509738, USD508650, USD508188, USD508187, USD507937, USD506359, USD492596, USD489610, USD489005, USD447056, USD443514, US9988179, US9974419, US9963263, US9814335, US9783337, US9751741, US9586738, US9499299, US9452863, US9409680, US9290306, US9242768, US9233772, US9181001, US8998027, US8939695, US8708182, US8672158, US8650839, US8528759, US8495854, US8460290, US8448800, US8424705, US8413829, US8353413, US8348075, US8336730, US8302822, US8251236, US8231025, US8231020, US8177083, US8132684, US8109396, US8100277, US8056744, US8047398, US7967159, US7931163, US7891510, US7882977, US7857154, US7854106, US7832580, US7830263, US7823736, US7798359, US7784251, US7780024, US7766183, US7766178, US7735297, US7721901, US7694835, US7648503, US7644902, US7637384, US7621413, US7611027, US7588155, US7581652, US7571826, US7451898, US7451885, US7413097, US7410070, US7325369, US7308988, US7281636, US7261226, US7243807, US7228979, US7207451, US7190268, US7124904, US7124904, US7114625, US7114625, US7111746, US7108145, US7108145, US7097790, US7083201, US7070063, US7051905, US7048158, US7009525, US7007817, US7007816, US7000789, US6988642, US6981603, US6981602, US6948631, US6948630, US6931821, US6926161, US6908001, US6889857, US6848235, US6823651, US6802427, US6793082, US6786348, US6783014, US6766916, US6725630, US6702161, US6681947, US6637611, US6571994, US6536616, US6523710, US6523709, US6499616, US6484896, US6477823, US6446823, US6439412, US6425480, US6415935, US6393800, US6379330, US6306080, US6305579, US6276544, US6260723, US6241111, US6240708, US6220471, US6187399, US6164471, US6152913, US6142343, US6112923, US6105802, US6102227, US6102226, US6082567, US6073809, US6056136, US6047840, US6044992, US6006933, US6003701, US5992659, US5975321, US5971183, US5967352, US5964362, US5954215, US5947309, US5882119, US5862953, US5829613, US5813553, US5806700, US5797509, US5755348, US5735426, US5735417, US5725116, US5670117, US5642825, US5603422, US5593055, US5553727, US5495958, US5480045, US5307946, US2018281999, US2018071808, US2018016067, US2017305615, US2017233233, US2017137189, US2016262558, US2016176586, US2016096309, US2016023813, US2015166225, US2015129534, US2014263475, US2014263317, US2014158688, US2012295343, US2012273452, US2012097556, US2011290755, US2011290754, US2011233211, US2011186534, US2011174761, US2011155758, US2011056866, US2011017739, US2011011869, US2010288765, US2010270256, US2010084366, US2010084361, US2010072163, US2010058574, US2009320741, US2009320590, US2009283492, US2009277862, US2009277861, US2009277859, US2009242044, US2009173739, US2009084751, US2009057261, US2008314916, US2008296248, US2008264894, US2008223815, US2008223813, US2008223811, US2008178561, US2008169262, US2008164235, US2008011711, US2007284331, US2007272647, US2007221605, US2007193226, US2007181578, US2007076064, US2007075083, US2007045319, US2007034591, US2007034590, US2007023383, US2007012645, US2007007230, US2006289377, US2006182372, US2006169666, US2006060555, US2006054584, US2006037927, US2005269282, US2005252878, US2005247712, US2005236354, US2005230342, US2005212286, US2005167389, US2005150858, US2005103742, US2005072751, US2005062183, US2005061766, US2005040131, US2005029219, US2005006334, US2004251276, US2004251228, US2004226907, US2004207878, US2004193080, US2004182047, US2004173563, US2004168999, US2004140284, US2004104193, US2004099630, US2004079765, US2004069738, US2004055991, US2004055990, US2003182901, US2003155361, US2003150834, US2003146185, US2003127414, US2003116522, US2003084648, US2003075519, US2002185464, US2002175173, US2002162818, US2002108922, US2002101109, US2002027120, US10626362, US10618699, US10569324, US10526113, US10479585, US10457437, US10399753, US10399139, US10351405, US10336516, US10327602, US10266299, US10259617, US10259612, US10214312, US10214311, US10131455, US10100273, US10093460, US10071835, US10039425, US10023345, TWI314292, KR101962800, JP6465483, JP4454202, JP2017512723, JP2016159961, JP2010179948, JP2003261157, GB2399559, GB2399559, GB2358182, GB2358182,

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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 bridges. The lower skirt on a vertical line. Continued pulling on the tab sequentially fractures the bridges.



JP7098053 B4	19951025	JP19860214985	19860911
JP8150172 A2	19960611	JP19950091038	19950417
MX162465 A	19910513	MX19860003694	19860909
NL8602291 A	19870401	NL19860002291	19860911
NL8901212 A	19891218	NL19890001212	19890516
SE467907 B	19921005	SE19860003758	19860909
SE467907 C	19930211	SE19860003758	19860909
SE510157 C2	19990426	SE19890001425	19890420
SE8603758 A	19870312	SE19860003758D	19860909
SE8603758 A0	19860909	SE19860003758	19860909
SE8603758 L	19870312	SE19860003758	19860909
SE8901425 A	19891121	SE19890001425D	19890420
SE8901425 A0	19890420	SE19890001425	19890420
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US4745917 A	19880524	US19850774778	19850911

Probable Assignee: KENDALL AND CO

Assignee(s):(std): KENDALL AND CO ; KENDALL CO THE ; THE KENDALL CO ; THE KENDALL COMPANY ; THE KENDALL COMPANY TE BOSTON MASSACHUSETTS VER ST ; KENDALL CY ; KENDALL COMPANY WALPOLE MASSAC ; KENDALL CO WALPOLE MASSAC

Assignee(s): KENDALL CO WALPOLE MA A CORP OF DE ; KENDALL CO ; HASTY JAMES H ; KENDALL COMPANY THE ; KENDALL CO WALPOLE MASSACHUSETTS ; MANUFACTURERS HANOVER TRUST CO AGENT AS ; MANUFACTURERS HANOVER TRUST CO ; KENDARU CO ZA ; WESTLAKE BETSY C ; THE KENDALL COMPANY WALPOLE MASSACHUSETTS ; THE KENDALL COMPANY TE BOSTON MASSACHUSETTS VER ST V AM ; THE KENDALL CO BOSTON MASS US ; KENDALL CO TE BOSTON MASSACHUSETTS VER ST V AM

Inventor(s):(std): BETSUTSUI KIYARORIN UESUTOREIKU ; HASTY JAMES HICKS ; JIEEMUSU HITSUKUSU HASUTEI ; WESTLAKE BETSY CAROLYN ; JIEEMUZU HITSUKUSU HASUTEI ; JAMES HICKS HASTY ET BETSY CAROLYN WESTLAKE ; BETSY CAROLYN WESTLAKE ; WESTLAKE BETSY C ; J H HASTY ; HICKS HASTY JAMES ; HASTY JAMES H ; GERHARDT K ; CAROLYN WESTLAKE BETSY ; WESTLAKE B C ; JAMES HICKS HASTY ; BETSUTSUI KIYARORIN UESUTOREIK ; B C WESTLAKE ; HASTY J H

Inventor(s): HASTY JAMES HICKS GLENVIEW ILL ; BETSY C WESTLAKE ; K GERHARDT ; JAMES H HASTY ; BETSUTSUI KIYARORIN UESUTOREIKU ; WESTLAKE BETSY CAROLYN PALATINE ILL ; JEEMUZU HITSUKUSU HASUTEI ; WESTLAKE BETSY CAROLYN PALATINE ILL US ; HASTY JAMES HICKS GLENVIEW ILL US

Agent(s): FB RICE; FB RICE PTY LTD; SMART AND BIGGAR

International class (IPC 8-9): A41B11/00 A61F13/00 A61F13/06 A61F13/08 D04B1/26 D04B9/52 (Advanced/Invention); A61F13/06 (Advanced/Non-invention); A41B11/00 A61F13/06 D04B1/22 D04B9/00 (Core/Invention)

International class (IPC 1-7): A41B11/00 A61F13/08 D04B1/26

CPC: D04B9/52 A61F13/08 D04B1/265

European class: A61F13/08 D04B1/26 D04B9/52

US class: 128/165 602/63 602/76 66/178A

JP class F-Term: 3B018 3B018/AA01 3B018/AB02 3B018/AC00 3B018/AC01 3B018/AC05 3B018/AD01 4C079

JP class F-Index: A41B11/00/Z A61F13/08 A61F13/06/F

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Cited documents: US4527402 A, US4513940 A, US4502301 A, US4180869 A, US4180065 A, US4172456 A, US4027667 A, US3983870 A, US3889494 A, US3874001 A, US3856008 A, US3728875 A, US2883842 A, US25046 A, JPS62106762, JP62106762 A2, GB236510 A, GB2180161 A1, GB2124087 A1, GB2111833 A1, FR2315904 A1, DE3631022 C2, DE2629837 A1, DE2413332 A1, DE1986631 U, DE1986631,

Forward Citations: WO9818418, WO15140744, WO12127033, WO12107571, WO02064073, WO0164152, WO0001332, US9737454, US9605365, US9566206, US9220655, US8603019, US8535255, US8435199, US8424116, US8317736, US7775069, US7641623, US7562541, US7169122, US6684412, US6430970, US6338722, US6223782, US6216495, US6123681, US6063049, US5994612, US5412957, US5005567, US2017335495, US2015128652, US2013198922, US2012179082, US2012103988, US2012078156, US2010076356, US2009240279, US2009076427, US2009044313, US2009025115, US2008249454, US2008132822, US2007191728, US2007033711, US2006258964, US2004254624, US2004030270, US2003125655, US10507158, US10501874, US10455868, US10149799, KR102105795, JP5785379, JP5022504, JP4917016, JP4763045, JP4179612, JP4018102, JP3008801, JP2019501, JP2017051415, JP2011115571, JP2007530817, JP2007039814, JP2006124874, JP2006045729, JP2005325486, JP2003319985, JP2002519141, JP2002013005, JP2001502946, GB2260686, GB2260686, GB2218638, FR3050928, FR2971417, FR2805459, FR2780637, FR2755006, FR2670110, FR2631546, EP2688535, EP2540263, EP0934043, EP0884036, EP0490793, DE3916447, DE19825693, DE19825693, DE102018107576, DE102010046945, DE102006032223, DE102004022504, DE102004022504, BE1003601, AU621357,

Abstract:

Appropriate compression profiles for stockings to manage venous disorders in the lower extremities of ambulatory individuals are defined. Three profiles are described for the treatment of three categories of venous disease: mild venous disease, superficial venous insufficiency, and deep venous insufficiency. The highest pressures are used to manage the most severe disorder. The stockings use large pressure gradients to provide support for microscopic hemodynamics and valvular function at each region of the leg without producing venous congestion. The large gradients also ensure the maintenance of graduated pressure for the general population with an acceptable number of stocking sizes. Reduced foot pressures are also utilized to enhance patient compliance while avoiding a tourniquet effect.

Family:	Publication number	Publication date	Application number	Application date
	AU2013313129 AA	20150312	AU20130313129	20130829
	AU2013313129 BB	20170601	AU20130313129	20130829
	BR112015004815 A2	20170704	BR20151104815	20130829
	CA2882540 AA	20150219	CA20132882540	20130829
	CA2882540 AA	20140313	CA20132882540	20130829
	CA2882540 C	20180626	CA20132882540	20130829
	CN104755388 A	20150701	CN201380046274	20130829
	CN104755388 B	20170922	CN201380046274	20130829
	EP2892819 A1	20150715	EP20130835199	20130829
	EP2892819 A4	20160518	EP20130835199	20130829
	EP2892819 B1	20200101	EP20130835199	20130829
	KR102110357 B1	20200514	KR20157008664	20130829
	KR20150053787 A	20150518	KR20157008664	20130829
	MX2015003014 A1	20150706	MX20150003014	20130829
	MX353001 B	20171215	MX20150003014	20130829
	US2014061196 AA	20140306	US20120603998	20120905
	US2015232229 AA	20150820	US20150706263	20150507
	US2019225369 AA	20190725	US20190262406	20190130
	US9028963 BB	20150512	US20120603998	20120905
	US10196174 BB	20190205	US20150706263	20150507
	WO14039364 A1	20140313	WO2013U557251	20130829

International class (IPC 8-9):	B32B1/00 B32B15/04 B32B27/06 B32B27/08 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B27/40 B32B3/00 B32B3/02 B32B3/04 B32B3/28 B32B3/30 B32B5/18 B32B5/22 B32B7/00 B32B7/02 B32B7/04 B32B7/06 B32B7/10 B32B7/12 B65D17/00 B65D17/28 B65D17/34 B65D43/02 B65D53/04 B65D55/02 B65D65/40 B65D77/10 B65D77/20 (Advanced/Invention)
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CPC:	

Classification Explorer

Cited documents: WO9905041 A1, WO15119988 A1, WO14039365 A1, WO12172029 A1, WO12152622 A1, WO12113530 A1, WO12079971 A1, WO11039067 A1, WO10115811 A1, WO09092066 A2, WO08148176 A1, WO08125785 A1, WO08125784 A1, WO08118569 A2, WO08039350 A2, WO08027036 A1, WO0807029 A2, WO06108853 A1, WO06073777 A1, WO06021291 A1, WO06018556 A1, WO05009868 A1, WO0066450 A1, WO00066450, USRE39790 E, USRE33893 E, US9676513 BB, US9533805 BB, US9440765 BB, US9227755 BB, US9221579 BB, US9102438 BB, US9028963 BB, US8906185 BB, US8348082 BB, US8329288 BB, US8308003 BB, US8129009 BB, US8057896 BB, US7850033 BB, US7838109 BB, US7819266 BB, US7798359 BA.

US7789262 BB, US7740927 BB, US7740730 BB, US7713605 BB, US7648764 BB, US7531228 BB, US7448153 BB, US7316760 BB, US7217454 BB, US7182475 BB, US7128210 BB, US6974045 BA, US6955736 BB, US6916516 BA, US6902075 BB, US6866926 BA, US6866926, US6790508 BB, US6767425 BB, US6722272 BB, US6705467 BA, US6699566 BB, US6627273 BB, US6602309 BB, US6548302 BA, US6458302 BA, US6378715 BA, US6312776 BA, US6290801 BA, US6194042 BA, US6158632 A, US6139931 A, US6131754 A, US6096358 A, US6082566 A, US5975304 A, US5915577 A, US5871112 A, US5860544 A, US5860544 A, US5702015 A, US5669521 A, US5618618 A, US5615789 A, US5601200 A, US5598940 A, US5560989 A, US5514442 A, US5513781 A, US5433992 A, US5265745 A, US5265745 A, US5226281 A, US5217790 A, US5197618 A, US5178967 A, US5149386 A, US5131556 A, US5125529 A, US5098495 A, US5071710 A, US5057365 A, US5055150 A, US5053457 A, US5015318 A, US5004111 A, US4961986 A, US4960216 A, US4960216 A, US4938390 A, US4889731 A, US4867881 A, US4863061 A, US4837061 A, US4818577 A, US4811856 A, US4801647 A, US4781294 A, US4770325 A, US4741791 A, US4735335 A, US4735335 A, US4693390 A, US4666052 A, US4636273 A, US4596338 A, US4588099 A, US4582735 A, US4206165 A, US4133796 A, US3990603 A, US3964670 A, US3556816 A, US3460310 A, US3460310 A, US3302818 A, US3292828 A, US3235165 A, US2768762 A, US2017253373 AA, US2014224800 AA, US2014186589 AA, US2014061196 AA, US2014001185 AA, US2013177263 AA, US2013121623 AA, US2013020324 AA, US2012285920 AA, US2012241449 AA, US2012111758 AA, US2012103988 AA, US2012070636 AA, US2012067896 AA, US2012043330 AA, US2012043330 AA, US2012000910 AA, US2011147353 AA, US2011138742 AA, US2011100989 AA, US2011100949 AA, US2011091715 AA, US2011089177 AA, US2011005961 AA, US2011000917 AA, US2010314278 AA, US2010290663 AA, US2010221483 AA, US2010213193 AA, US2010193463 AA, US2010193463 AA, US2010170820 AA, US2010155288 AA, US2010116410 AA, US2010059942 AA, US2010047552 AA, US2010030180 AA, US2010009162 AA, US2009304964 AA, US2009208729 AA, US2009078671 AA, US2008233424 AA, US2008233339 AA, US2008233339 AA, US2008231922 AA, US2008169286 AA, US2008169286 AA, US2008156443 AA, US2008145581 AA, US2008103262 AA, US2008073308 AA, US2008026171 AA, US2007298273 AA, US2007267304 AA, US2007065609 AA, US2007003725 AA, US2006278665 AA, US2006151415 AA, US2006151415 AA, US2006124577 AA, US2006003122 AA, US2006003120 AA, US2006000545 AA, US2005218143 AA, US2005208244 AA, US2005208242 AA, US2005123737 AA, US2005123737 AA, US2005048307 AA, US2004109963 AA, US2004043238 AA, US2003196418 AA, US2003168423 AA, US2003087057 AA, US2002068140 AA, US2001031348 AA, TW201217237 A, MXPA05002905, MX5002002905 A1, MX2010001867 A1, MX1001867 A, MX05002905 A, KR100886955 B1, KR100840926 B1, KR100711073 B1, JP9110077 A2, GB2501967 A1, GB2353986 A1, GB1216991 A, FR2943322 A1, FR2916157 A1, EP2599735 A1, EP2292524 A1, EP2230190 A1, EP2014461 A1, EP1992476 A1, EP1968020 A1, EP1935636 A1, EP1918094 A1, EP1873078 A1, EP1857275 A1, EP1839899 A1, EP1839898 A1, EP1837288 A1, EP1834893 A1, EP1814744 A1, EP1577226 A1, EP1462381 A1, EP1445209 B1, EP1199253 B1, EP1075921 A2, EP0915026 A1, EP0905039 A1, EP0826599 A2, EP0826598 A2, EP0803445 B1, EP0717710 B1, EP0706473 B1, EP0668221 A1, EP0135431 A1,

DE202009000245 U1

DE202009000245 U, DE10204281 A1,

DE102007022935 B4

DE102006030118 B3

CN1301289 A, CN101160211 A, CN10111437 A, CN101054006 A, CA2203744 AA, CA2015992 AA, BR8200231 U, BR0300992 A, AT501393 A1, AT11738 U1,

Forward Citations:

WO18081419, WO17058886, US9994357, US9834331, US9815589, US9676513, US9624008, US9533805, US9440768, US9440765, US9278793, US9227755, US9221579, US9193513, US9102438, US9028963, US2018118439, US2015122818, US2014061197, US2014001185, US10604315, US10556732, US10196174, US10150590, US10150589, US10000310, EP2892818, EP2892818, CN108883602, CN105620900, CN105523275,

Abstract:

A pull-tab sealing member for a container providing a foamed polymer layer positioned within the sealing member for effective heat sealing to the container together with a lower laminate below a tab capable of tearing to provide a tamper evident structure below the tab.

