



New connection on: : 13-11-2020 : 01:45:15 - Last disconnection on: : 13-11-2020 : 01:45:04

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[EPODOC: SS 21] web AND flexible AND pouch AND plastic AND /ic (B65D)

Results in EPODOC 20

[SS 22] ..li



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PN - [PH12018501915](#) A1 20190617
PR - EP20160160911
20160317; WO2017EP53241
20170214
AP - [PH20181501915](#) 20180907
DT - I
CCI - [B31B70/857](#) ; [B31B70/88](#) ;
[B65D75/008](#) ; [B65D75/563](#)
CCA - [B31B2150/002](#) ; [B31B2160/20](#) ;
[B31B2170/20](#) ; [B31F2201/0733](#) ;
[B65D2231/022](#)
CI - B31B70/25 (EA, US)
- B31B70/844 (KR)
- B31B70/857 (EP, EA, KR, US)
- B31B70/88 (EP, EA, KR, US)
- B65D75/008 (EP, EA, KR, US)
- B65D75/563 (EP, EA, KR, US)
- B65D75/5894 (EA, US)
CA - B31B2150/002 (EP, EA)
- B31B2155/00 (EA, US)
- B31B2160/20 (EP, EA)
- B31B2170/20 (EP, EA)
- B31F2201/0733 (EP, EA, KR)
- B65D2231/022 (EP, EA, KR)
PA - ECOLEAN AB [SE]
TI - METHOD AND APPARATUS FOR
PROVIDING A **WEB** OF A **FLEXIBLE**,

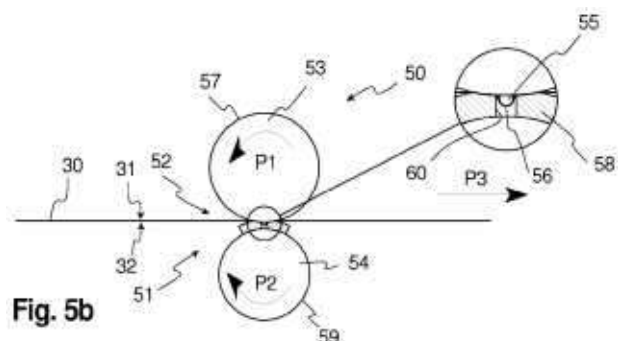


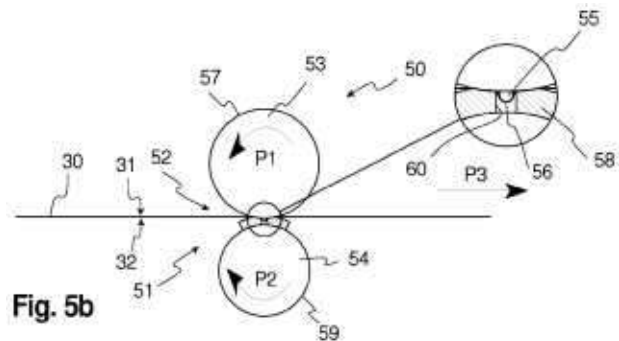
Fig. 5b

**PLASTIC PACKAGING MATERIAL
AND FLEXIBLE POUCH PACKAGE**

- AB - A method for providing a **web** (30) of **flexible, plastic** packaging material with a succession of dimples (9) forming indentations for straw insertion, comprising feeding the **web** (30) of packaging material through a first nip (52) defined by a first pair (51) of rotating rollers, and cyclically engaging the **web** (30) from a first side (31) by a protrusion (55) supported by a first roller (53) of said first pair (51) of rotating rollers for forming the succession of dimples (9) in the **web** (30) of packaging material. The invention also relates to a corresponding apparatus and a **flexible pouch** package comprising a dimple.

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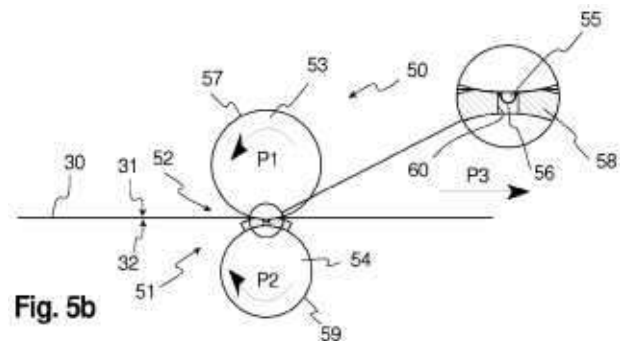
- PN - [US2019030851](#) A1 20190131
- PR - EP20160160911
20160317; WO2017EP53241
20170214
- AP - [US201716085675](#) 20170214
- DT - **
- CCI - [B31B70/857](#) ; [B31B70/88](#) ;
[B65D75/008](#) ; [B65D75/563](#)
- CCA - [B31B2150/002](#) ; [B31B2160/20](#) ;
[B31B2170/20](#) ; [B31F2201/0733](#) ;
[B65D2231/022](#)
- CI - B31B70/25 (EA, US)
- B31B70/844 (KR)
- B31B70/857 (EP, EA, KR, US)
- B31B70/88 (EP, EA, KR, US)
- B65D75/008 (EP, EA, KR, US)
- B65D75/563 (EP, EA, KR, US)
- B65D75/5894 (EA, US)
- CA - B31B2150/002 (EP, EA)
- B31B2155/00 (EA, US)
- B31B2160/20 (EP, EA)
- B31B2170/20 (EP, EA)
- B31F2201/0733 (EP, EA, KR)
- B65D2231/022 (EP, EA, KR)



- PA - ECOLEAN AB [SE]
- TI - METHOD AND APPARATUS FOR PROVIDING A **WEB** OF A **FLEXIBLE, PLASTIC** PACKAGING MATERIAL AND **FLEXIBLE POUCH** PACKAGE
- AB - A method for providing a **web** (30) of **flexible, plastic** packaging material with a succession of dimples (9) forming indentations for straw insertion, comprising feeding the **web** (30) of packaging material through a first nip (52) defined by a first pair (51) of rotating rollers, and cyclically engaging the **web** (30) from a first side (31) by a protrusion (55) supported by a first roller (53) of said first pair (51) of rotating rollers for forming the succession of dimples (9) in the **web** (30) of packaging material. The invention also relates to a corresponding apparatus and a **flexible pouch** package comprising a dimple.

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- PN - [CN109070516](#) A 20181221
- PR - EP20160160911
20160317; WO2017EP53241
20170214
- AP - [CN20178017222](#) 20170214
- DT - I
- CT - || STSE (A)
[GB1562239](#) A 19800305 [A]
(HOECHST AG)
[A] 1-7
* 全文 *;
[DE2925159](#) A1 19810108 [A]
(HOECHST AG)
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* 全文 *;
[GB2154200](#) A 19850904 [A] (TOYO
SEIKAN KAISHA LTD)
[A] 1-7
* 全文 *;
[US4762514](#) A 19880809 [YXA]
(YOSHIDA TOKIO [JP])
[Y] 2、6
* 说明书第3-5栏、图1-11 *



	[X] 7 [A] 1-7; DE4334364 A1 19940511 [YX] (LMG ROTOPACK GMBH [DE]) [Y] 2、6 * 说明书第3页第40行-第5页第35 行、附图1-10 * [X] 1、3-5; US2002114543 A1 20020822 [YX] (MURRAY R CHARLES [US]) [Y] 2、6 * 说明书第[0024]-[0042]段、图1- 14 * [X] 7; CN101448716 A 20090603 [A] (POPPACK LLC [US]) [A] 1-7 * 全文 *
CTNP	- // STSE (A) [A] - 李思益,《皮革及皮草机 械》,中国轻工业出版社, (20151130) [A] 1-7 * 第212-216页 *
CCI	- B31B70/857 ; B31B70/88 ; B65D75/008 ; B65D75/563
CCA	- B31B2150/002 ; B31B2160/20 ; B31B2170/20 ; B31F2201/0733 ; B65D2231/022
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PA	- ECOLEAN AB
TI	- METHOD AND APPARATUS FOR PROVIDING A WEB OF A FLEXIBLE, PLASTIC PACKAGING MATERIAL AND FLEXIBLE POUCH PACKAGE
AB	- A method for providing a web (30) of flexible, plastic packaging

material with a succession of dimples (9) forming indentations for straw insertion, comprising feeding the **web** (30) of packaging material through a first nip (52) defined by a first pair (51) of rotating rollers, and cyclically engaging the **web** (30) from a first side (31) by a protrusion (55) supported by a first roller (53) of said first pair (51) of rotating rollers for forming the succession of dimples (9) in the **web** (30) of packaging material. The invention also relates to a corresponding apparatus and a **flexible pouch** package comprising a dimple.

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PN - [SG11201807602Y](#) A 20181030
PR - EP20160160911 20160317; WO2017EP53241 20170214
AP - [SG20181107602Y](#) 20170214
DT - I
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CCA - [B31B2150/002](#) ; [B31B2160/20](#) ; [B31B2170/20](#) ; [B31F2201/0733](#) ; [B65D2231/022](#)
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- B31B70/844 (KR)
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- B65D75/008 (EP, EA, KR, US)
- B65D75/563 (EP, EA, KR, US)
- B65D75/5894 (EA, US)
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- B31B2155/00 (EA, US)
- B31B2160/20 (EP, EA)
- B31B2170/20 (EP, EA)
- B31F2201/0733 (EP, EA, KR)
- B65D2231/022 (EP, EA, KR)
PA - ECOLEAN AB [SE]
TI - METHOD AND APPARATUS FOR PROVIDING A **WEB** OF A **FLEXIBLE, PLASTIC** PACKAGING MATERIAL AND **FLEXIBLE POUCH** PACKAGE

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PN - [AU2017233401](#) A1 20181004

PR - EP20160160911
20160317; WO2017EP53241
20170214

AP - [AU20170233401](#) 20170214

DT - I

CCI - [B31B70/857](#) ; [B31B70/88](#) ;
[B65D75/008](#) ; [B65D75/563](#)

CCA - [B31B2150/002](#) ; [B31B2160/20](#) ;
[B31B2170/20](#) ; [B31F2201/0733](#) ;
[B65D2231/022](#)

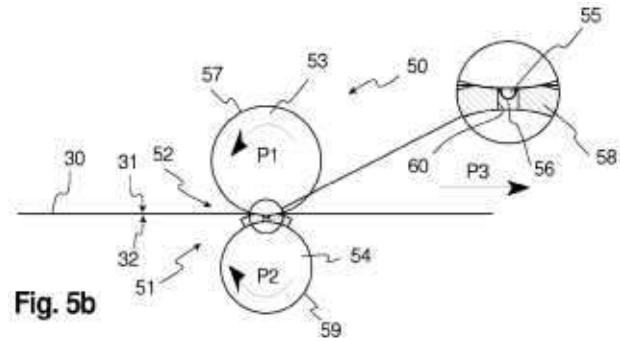
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- B65D75/008 (EP, EA, KR, US)
- B65D75/563 (EP, EA, KR, US)
- B65D75/5894 (EA, US)

CA - B31B2150/002 (EP, EA)
- B31B2155/00 (EA, US)
- B31B2160/20 (EP, EA)
- B31B2170/20 (EP, EA)
- B31F2201/0733 (EP, EA, KR)
- B65D2231/022 (EP, EA, KR)

PA - ECOLEAN AB

TI - Method and apparatus for
providing a **web** of a **flexible**,
plastic packaging material
and **flexible pouch** package

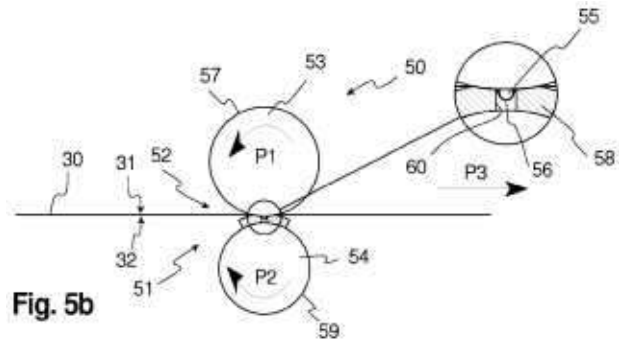
AB - A method for providing a **web** (30)
of **flexible, plastic** packaging
material with a succession of
dimples (9) forming indentations
for straw insertion, comprising
feeding the **web** (30) of packaging
material through a first nip (52)
defined by a first pair (51) of
rotating rollers, and cyclically
engaging the **web** (30) from a first
side (31) by a protrusion (55)
supported by a first roller (53) of
said first pair (51) of rotating
rollers for forming the
succession of dimples (9) in
the **web** (30) of packaging
material. The invention also
relates to a corresponding
apparatus and a **flexible pouch**



package comprising a dimple.

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- PN - [CA3017544](#) A1 20170921
- PR - EP20160160911
20160317; WO2017EP53241
20170214
- AP - [CA20173017544](#) 20170214
- DT - I
- CCI - [B31B70/857](#) ; [B31B70/88](#) ;
[B65D75/008](#) ; [B65D75/563](#)
- CCA - [B31B2150/002](#) ; [B31B2160/20](#) ;
[B31B2170/20](#) ; [B31F2201/0733](#) ;
[B65D2231/022](#)
- CI - B31B70/25 (EA, US)
- B31B70/844 (KR)
- B31B70/857 (EP, EA, KR, US)
- B31B70/88 (EP, EA, KR, US)
- B65D75/008 (EP, EA, KR, US)
- B65D75/563 (EP, EA, KR, US)
- B65D75/5894 (EA, US)
- CA - B31B2150/002 (EP, EA)
- B31B2155/00 (EA, US)
- B31B2160/20 (EP, EA)
- B31B2170/20 (EP, EA)
- B31F2201/0733 (EP, EA, KR)
- B65D2231/022 (EP, EA, KR)
- PA - ECOLEAN AB [SE]
- TI - METHOD AND APPARATUS FOR
PROVIDING A **WEB** OF A **FLEXIBLE**,
PLASTIC PACKAGING MATERIAL
AND **FLEXIBLE POUCH** PACKAGE
- AB - A method for providing a **web** (30)
of **flexible, plastic** packaging
material with a succession of
dimples (9) forming indentations
for straw insertion, comprising
feeding the **web** (30) of packaging
material through a first nip (52)
defined by a first pair (51) of
rotating rollers, and cyclically
engaging the **web** (30) from a first
side (31) by a protrusion (55)
supported by a first roller (53) of
said first pair (51) of rotating
rollers for forming the
succession of dimples (9) in
the **web** (30) of packaging



material. The invention also relates to a corresponding apparatus and a **flexible pouch** package comprising a dimple.

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PN - [TW201742792](#) A 20171216

PNFP - TWI680080B B 20191221

PR - EP20160160911 20160317

AP - [TW20170107162](#) 20170306

DT - I

CCI - [B31B70/857](#) ; [B31B70/88](#) ;
[B65D75/008](#) ; [B65D75/563](#)

CCA - [B31B2150/002](#) ; [B31B2160/20](#) ;
[B31B2170/20](#) ; [B31F2201/0733](#) ;
[B65D2231/022](#)

CI - B31B70/25 (EA, US)
- B31B70/844 (KR)
- B31B70/857 (EP, EA, KR, US)
- B31B70/88 (EP, EA, KR, US)
- B65D75/008 (EP, EA, KR, US)
- B65D75/563 (EP, EA, KR, US)
- B65D75/5894 (EA, US)

CA - B31B2150/002 (EP, EA)
- B31B2155/00 (EA, US)
- B31B2160/20 (EP, EA)
- B31B2170/20 (EP, EA)
- B31F2201/0733 (EP, EA, KR)
- B65D2231/022 (EP, EA, KR)

PA - (A B)
ECOLEAN AB [SE]

TI - (A B)
Method and apparatus for providing a **web** of a **flexible, plastic** packaging material and **flexible pouch** package

AB - (A)
A method for providing a **web** (30) of **flexible, plastic** packaging material with a succession of dimples (9) forming indentations for straw insertion, comprising feeding the **web** (30) of packaging material through a first nip (52) defined by a first pair (51) of rotating rollers, and cyclically engaging the **web** (30) from a first side (31) by a protrusion (55)

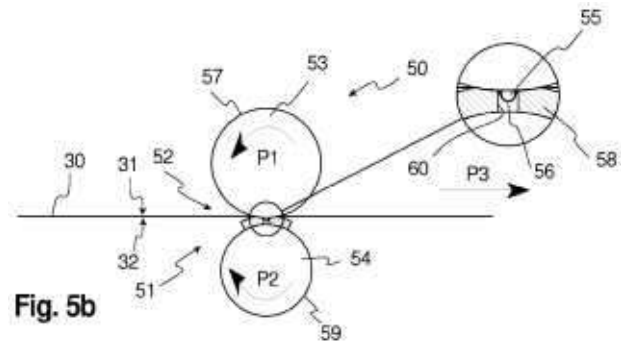


Fig. 5b

supported by a first roller (53) of said first pair (51) of rotating rollers for forming the succession of dimples (9) in the **web** (30) of packaging material. The invention also relates to a corresponding apparatus and a **flexible pouch** package comprising a dimple.

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- PN - [WO2017157599](#) A1 20170921
- PR - EP20160160911 20160317
- AP - [WO2017EP53241](#) 20170214
- DT - **
- CT - *[EP] ISR (A1)*
[DE4334364](#) A1 19940511 [XAYI]
 (LMG ROTOPACK GMBH [DE])
 [X] 5,6
 * column 4, line 23 - line 42; figures 7-9 *
 [A] 4,10,11
 [Y] 1-3,5-9
 [I] 7-9;
[US7175581](#) B2 20070213 [YDA]
 (MURRAY R CHARLES [US])
 [YD] 1-3,5-9
 * the whole document *
 [A] 4,10,11;
[US4072233](#) A 19780207 [A]
 (KRAMER KARL, et al)
 [A] 1-11
 * the whole document *
- CCI - [B31B70/857](#) ; [B31B70/88](#) ;
[B65D75/008](#) ; [B65D75/563](#)
- CCA - [B31B2150/002](#) ; [B31B2160/20](#) ;
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 - B31B70/88 (EP, EA, KR, US)
 - B65D75/008 (EP, EA, KR, US)
 - B65D75/563 (EP, EA, KR, US)
 - B65D75/5894 (EA, US)
- CA - B31B2150/002 (EP, EA)
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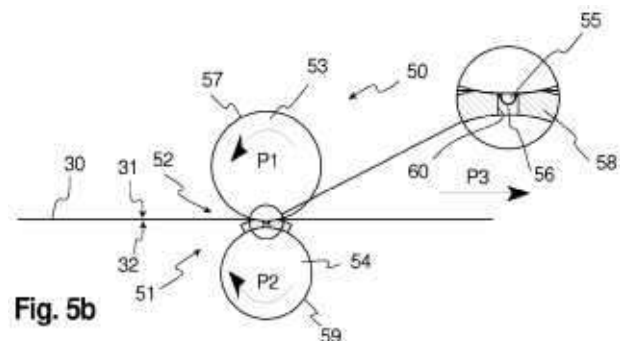
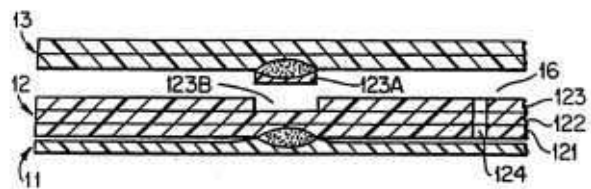


Fig. 5b

- B31F2201/0733 (EP, EA, KR)
- B65D2231/022 (EP, EA, KR)
- PA - ECOLEAN AB [SE]
- TI - METHOD AND APPARATUS FOR PROVIDING A **WEB** OF A **FLEXIBLE, PLASTIC** PACKAGING MATERIAL AND **FLEXIBLE POUCH** PACKAGE
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- PN - [US2001023001](#) A1 20010920
- PR - US20010862473
20010523; US19990342246
19990629; US19960768286
19961217; US19940361321 19941221
- AP - [US20010862473](#) 20010523
- DT - **
- CCI - [A61B50/15](#) ; [A61B50/30](#) ; [A61L2/06](#) ;
[A61L2/07](#) ; [A61L2/26](#) ; [B32B3/266](#) ;
[B32B5/022](#) ; [B32B7/04](#) ; [B32B7/12](#) ;
[B32B27/08](#) ; [B32B27/10](#) ;
[B32B27/12](#) ; [B32B27/18](#) ;
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[B32B2307/31](#) ; [B32B2307/41](#) ;
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[B32B2307/7145](#) ; [B32B2307/7246](#) ;
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[Y10T428/24942](#) ; [Y10T428/31746](#) ;
[Y10T428/31797](#) ; [Y10T428/31913](#) ;
[Y10T428/31924](#)

CI

- A61B50/15 (EP)
- A61B50/30 (EP)
- A61L2/06 (EP)
- A61L2/07 (EP)
- A61L2/26 (EP)
- B32B3/266 (EP)
- B32B5/022 (EP, US)
- B32B7/04 (EP, US)
- B32B7/12 (EP, US)
- B32B27/08 (EP, US)
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- B32B27/18 (EP)
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- B32B27/34 (EP, US)
- B32B27/36 (EP, US)
- B65B55/02 (EP)
- B65B55/10 (EP)
- B65D31/02 (EP)
- B65D75/26 (EP)
- B65D75/5855 (EP)

CA

- A61B2050/002 (EP)
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- A61L2202/121 (EP)
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- B32B2377/00 (US)
- B32B2439/40 (EP)
- B32B2553/00 (EP, US)
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- Y10T428/24942 (EP, US)
- Y10T428/31746 (EP, US)
- Y10T428/31797 (EP, US)
- Y10T428/31913 (EP, US)
- Y10T428/31924 (EP, US)

TI

AB

- Sterilizable **flexible pouch** package

- A sterilizable **flexible pouch** package includes a non-woven barrier **web**, a perforated **plastic** intermediate **web**, and an imperforate **plastic** upper **web**. Line heat seals bonding the webs from a cavity into which a sterilizing fluid may enter after passing through the barrier and intermediate webs. The line heat seal bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an object to be sterilized into the cavity after which the access opening is sealed, enclosing the object in the cavity. After sterilizing, the package is opened by peeling apart the upper **web** from the intermediate **web** which causes a delamination failure of the line heat seal. Preferred materials enable steam sterilization at temperature of 270° F.

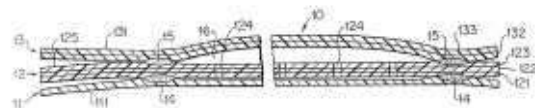
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PN

- [US5947287](#) A 19990907

PR

- US19960768288
19961217; US19950576556
19951221; US19940361321 19941221



AP - [US19960768288](#) 19961217

DT - *, Rep

CT - *// STSE (A)*
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[B65B55/10](#) ; [B65D75/26](#) ;
[B65D75/5855](#)

CCA - [A61B2050/002](#) ; [A61B2050/0065](#) ;
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[B29C65/5057](#) ; [B29C65/76](#) ;
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[B29C66/244](#) ; [B29C66/43](#) ;
[B29C66/43121](#) ; [B29C66/723](#) ;
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PA	- WHITESELL OF NORTH CAROLINA IN [US]; AMERICAN NATIONAL CAN CO [US]
TI	- Sterilizable flexible pouch package
AB	- A high temperature steam-sterilizable flexible pouch package includes a non-woven barrier web, a perforated plastic intermediate web, and an imperforate plastic upper web. Line heat seals bonding the webs form a cavity into which high temperature sterilizing steam may enter after passing through the barrier and intermediate webs. The line heat seal bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an object to be sterilized into the cavity after

which the access opening is sealed, enclosing the object in the cavity. After high temperature steam sterilizing, the package is opened by peeling apart the upper **web** from the intermediate **web** which causes a delamination failure of the line heat seal. Preferred materials enable vacuum cycle steam sterilization at a temperature of at least 270 DEG F.

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PN - [US6117505](#) A 20000912

PR - US19960768286
19961217; US19940361321
19941221; US19930025425 19930301

AP - [US19960768286](#) 19961217

DT - **

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[US3229813](#) A 19660118 [] (CROWE
JR GEORGE A, et al);

[US3410395](#) A 19681112 [] (SELLERS
JOHN C);

[US3496061](#) A 19700217 []
(FRESHOUR OREN A, et al);

[US3552638](#) A 19710105 []
(QUACKENBUSH JOHN J);

[US3655503](#) A 19720411 [] (STANLEY
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[US3761013](#) A 19730925 []
(SCHUSTER S);

[US3768725](#) A 19731030 [] (PILARO
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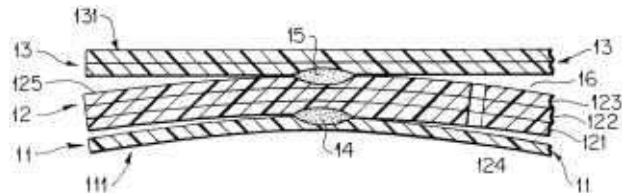
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[US4057144](#) A 19771108 []
(SCHUSTER SAMUEL J);

[US4168779](#) A 19790925 []
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[US4270658](#) A 19810602 []
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[US4778697](#) A 19881018 [] (GENSKE ROGER P [US], et al);
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[US5093164](#) A 19920303 [] (BAUER FRANK T [US], et al);
[US5108844](#) A 19920428 [] (BLEMBERG ROBERT J [US], et al);
[US5230430](#) A 19930727 [] (KIDDER JOHN W [US]);
[US5459978](#) A 19951024 [] (WEISS MARK E [US], et al);
[US5590777](#) A 19970107 [] (WEISS MARK E [US], et al)

CCI

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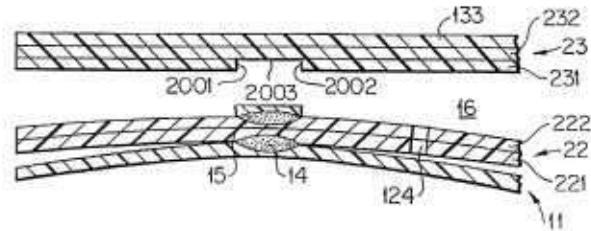
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	- B32B2262/14 (EP)
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	- B32B2307/41 (EP)
	- B32B2307/412 (EP)
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	- B32B2439/40 (EP)
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	- Y10T428/1334 (EP, US)
	- Y10T428/24942 (EP, US)
	- Y10T428/31746 (EP, US)
	- Y10T428/31797 (EP, US)
	- Y10T428/31913 (EP, US)
	- Y10T428/31924 (EP, US)
PA	- WHITESELL OF NORTH CAROLINA IN [US]; AMERICAN NATIONAL CAN CO [US]
TI	- Sterilizable flexible pouch package
AB	- A sterilizable flexible pouch package includes a non-woven barrier web , a perforated plastic intermediate web , and an imperforate plastic upper web . Line heat seals bonding the webs from a cavity into which a sterilizing steam may enter after passing through the barrier and intermediate webs. The line heat seal bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an object to be sterilized into the cavity after which the access opening is sealed, enclosing the object in the cavity. After sterilizing, the package is opened by peeling apart the upper web from the

intermediate **web** which causes a delamination failure of the line heat seal. Preferred materials enable steam sterilization at temperature of 270 DEG F.

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- PN - [US5653090](#) A 19970805
- PR - US19950576556
19951221; US19940361321
19941221; US19930025425 19930301
- AP - [US19950576556](#) 19951221
- DT - *; Rep
- CT - || STSE (A)
[US2997224](#) A 19610822 []
(STANNARD FORREST B);
[US3229813](#) A 19660118 [] (CROWE
JR GEORGE A, et al);
[US3410395](#) A 19681112 [] (SELLERS
JOHN C);
[US3496061](#) A 19700217 []
(FRESHOUR OREN A, et al);
[US3552638](#) A 19710105 []
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[US3761013](#) A 19730925 []
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[US3768725](#) A 19731030 [] (PILARO
J);
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[US4550546](#) A 19851105 [] (RALEY



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[US4638913](#) A 19870127 [] (HOWE JR MILTON A [US]);
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 (SHIMOYAMADA MASAHIRO [JP], et al);
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[US4857409](#) A 19890815 []
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[US5073436](#) A 19911217 []
 (ANTONACCI PAUL N [US], et al);
[US5089308](#) A 19920218 []
 (NORDNESS MARK E [US], et al);
[US5093164](#) A 19920303 [] (BAUER FRANK T [US], et al);
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[US5230430](#) A 19930727 [] (KIDDER JOHN W [US])

CCI - [A61B50/15](#) ; [A61B50/30](#) ; [A61L2/06](#) ;
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[B65B55/02](#) ; [B65B55/10](#) ;
[B65D31/02](#) ; [B65D75/26](#) ;
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CCA - [A61B2050/002](#) ; [A61B2050/0065](#) ;
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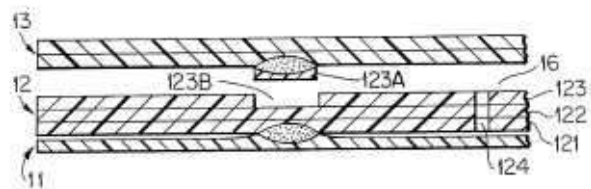
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 - A61B50/30 (EP)
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 - B65D75/26 (EP)

	- B65D75/5855 (EP)
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CL	- A61L2/26, A61L2/06, INV (EP)
PA	- ONGARD SYSTEMS INC [US] ; AMERICAN NATIONAL CAN CO [US]
TI	- Sterilizable flexible pouch package
AB	- A high temperature steam-sterilizable flexible pouch package includes a non-woven barrier web , a perforated plastic intermediate web , and an imperforate plastic upper web . Line heat seals bonding the webs form a cavity into which high temperature sterilizing steam may enter after passing through the barrier and intermediate webs. The line heat seal bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an object to be sterilized into the cavity after which the access opening is sealed, enclosing the object in the cavity. After high temperature steam sterilizing, the package is opened by peeling apart the upper web from the intermediate web which causes a delamination failure of the line heat seal. Preferred materials enable vacuum cycle steam sterilization at a temperature of at least 270 DEG F.

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PN	- US5590777 A 19970107
PR	- US19940361321 19941221; US19930025425 19930301
AP	- US19940361321 19941221
DT	- **
CT	- // STSE (A) US2997224 A 19610822 [] (STANNARD FORREST B) ;



[US3229813](#) A 19660118 [] (CROWE JR GEORGE A, et al);
[US3410395](#) A 19681112 [] (SELLERS JOHN C);
[US3496061](#) A 19700217 [] (FRESHOUR OREN A, et al);
[US3552638](#) A 19710105 [] (QUACKENBUSH JOHN J);
[US3655503](#) A 19720411 [] (STANLEY HUGH E, et al);
[US3761013](#) A 19730925 [] (SCHUSTER S);
[US3768725](#) A 19731030 [] (PILARO J);
[US3926311](#) A 19751216 [] (LASKE LOUIS LAWRENCE);
[US3930580](#) A 19760106 [] (BAZELL SEYMOUR, et al);
[US3967729](#) A 19760706 [] (TANNER II JOHN CLINTON);
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CCI - [A61B50/15](#) ; [A61B50/30](#) ; [A61L2/06](#) ;
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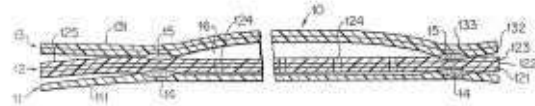
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	- Y10T428/31924 (EP, US)
PA	- ONGARD SYSTEMS INC [US] ; AMERICAN NATIONAL CAN CO [US]
TI	- Sterilizable flexible pouch package
AB	- A sterilizable flexible pouch

package includes a non-woven barrier **web**, a perforated **plastic** intermediate **web**, and an imperforate **plastic** upper **web**. Line heat seals bonding the webs from a cavity into which sterilizing steam may enter after passing through the barrier and intermediate webs. The line heat seal bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an object to be sterilized into the cavity after which the access opening is sealed, enclosing the object in the cavity. After sterilizing, the package is opened by peeling apart the upper **web** from the intermediate **web** which causes a delamination failure of the line heat seal. Preferred materials enable steam sterilization at temperature of 270 DEG F.

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- PN - [US6189694](#) B1 20010220
- PR - US19990349719
 19990708; US19950576556
 19951221; US19940361321
 19941221; US19960768288 19961217
- AP - [US19990349719](#) 19990708
- DT - **
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[A61L2/26](#) ; [B32B7/04](#) ; [B65B55/02](#) ;
[B65B55/10](#) ; [B65D75/26](#) ;
[B65D75/5855](#)

CCA - [A61B2050/002](#) ; [A61B2050/0065](#) ;
[A61B2050/314](#) ; [A61L2202/24](#) ;
[B29C65/02](#) ; [B29C65/483](#) ;
[B29C65/5057](#) ; [B29C65/76](#) ;
[B29C66/1122](#) ; [B29C66/12821](#) ;
[B29C66/1286](#) ; [B29C66/135](#) ;
[B29C66/244](#) ; [B29C66/43](#) ;
[B29C66/43121](#) ; [B29C66/723](#) ;
[B29C66/73365](#) ; [B29L2031/7128](#)

CI - A61B50/15 (EP)
 - A61B50/30 (EP)
 - A61L2/07 (EP)
 - A61L2/26 (EP)
 - B32B7/04 (EP)
 - B65B55/02 (EP)
 - B65B55/10 (EP)
 - B65D75/26 (EP)
 - B65D75/5855 (EP)

CA - A61B2050/002 (EP)
 - A61B2050/0065 (EP)
 - A61B2050/314 (EP)
 - A61L2202/24 (EP)
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 - B29C65/483 (EP)
 - B29C65/5057 (EP)
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- B29C66/12821 (EP)
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- B29C66/244 (EP)
- B29C66/43 (EP)
- B29C66/43121 (EP)
- B29C66/723 (EP)
- B29C66/73365 (EP)
- B29L2031/7128 (EP)
- PA - WHITESELL OF NORTH CAROLINA
IN [US]; AMERICAN NAT CAN CO
[US]
- TI - Sterilizable **flexible pouch** package
- AB - A high temperature steam-sterilizable **flexible pouch** package includes a non-woven barrier **web**, a perforated **plastic** intermediate **web**, and an imperforate **plastic** upper **web**. Line heat seals bonding the webs form a cavity into which high temperature sterilizing steam may enter after passing through the barrier and intermediate webs. The line heat seal bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an object to be sterilized into the cavity after which the access opening is sealed, enclosing the object in the cavity. After high temperature steam sterilizing, the package is opened by peeling apart the upper **web** from the intermediate **web** which causes a delamination failure of the line heat seal. Preferred materials enable vacuum cycle steam sterilization at a temperature of at least 270° F.

15/20 © EPODOC / EPO

- PN - [US6251489](#) B1 20010626
- PR - US19990342246 19990629; US19960768786 19961217; US19940361321 19941221
- AP - [US19990342246](#) 19990629
- DT - *; Rep

CT

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[US3761013](#) A 00000000 [];
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[US5653090](#) A 00000000 [];
[US5947287](#) A 00000000 []

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- [A61B50/15](#) ; [A61B50/30](#) ; [A61L2/07](#) ; [A61L2/26](#) ; [B32B7/04](#) ; [B65B55/02](#) ; [B65B55/10](#) ;
[B65D75/26](#) ; [B65D75/5855](#)

CCA

- [A61B2050/002](#) ; [A61B2050/0065](#) ; [A61B2050/314](#) ; [A61L2202/24](#) ; [Y10T428/1334](#) ;
[Y10T428/24942](#) ; [Y10T428/31746](#) ; [Y10T428/31797](#) ; [Y10T428/31913](#) ; [Y10T428/31924](#)

CI

- A61B50/15 (EP)
- A61B50/30 (EP)
- A61L2/07 (EP)
- A61L2/26 (EP)
- B32B7/04 (EP)
- B65B55/02 (EP)
- B65B55/10 (EP)
- B65D75/26 (EP)
- B65D75/5855 (EP)

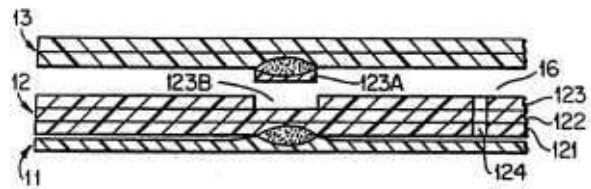
CA

- A61B2050/002 (EP)
- A61B2050/0065 (EP)
- A61B2050/314 (EP)

- A61L2202/24 (EP)
- Y10T428/1334 (EP, US)
- Y10T428/24942 (EP, US)
- Y10T428/31746 (EP, US)
- Y10T428/31797 (EP, US)
- Y10T428/31913 (EP, US)
- Y10T428/31924 (EP, US)
- TI - Sterilizable **flexible pouch** package
- AB - A sterilizable **flexible pouch** package includes a non-woven barrier **web**, a perforated **plastic** intermediate **web**, and an impermeate **plastic** upper **web**. Line heat seals bonding the webs from a cavity into which a sterilizing fluid may enter after passing through the barrier and intermediate webs. The line heat seal bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an object to be sterilized into the cavity after which the access opening is sealed, enclosing the object in the cavity. After sterilizing, the package is opened by peeling apart the upper **web** from the intermediate **web** which causes a delamination failure of the line heat seal. Preferred materials enable steam sterilization at temperature of 270° F.

16/20 © EPODOC / EPO

- PN - [WO9619383](#) A1 19960627
- PR - US19940361321 19941221
- AP - [WO1995US16481](#) 19951221
- DT - *; Rep
- CT - *[US]* ISR (A1)
[US3410395](#) A 19681112 [A] (SELLERS JOHN C);
[US3552638](#) A 19710105 [A] (QUACKENBUSH JOHN J);
[US3655503](#) A 19720411 [A] (STANLEY HUGH E, et al);
[US3768725](#) A 19731030 [A] (PILARO J);
[US4168779](#) A 19790925 [A] (YOKOKOJI SHYOJI, et al);
[US4270658](#) A 19810602 [A] (SCHUSTER SAMUEL J);
[US4367816](#) A 19830111 [A] (WILKES KENNETH R [US]);
[US4654240](#) A 19870331 [A] (JOHNSTON WILLIAM D [US], et al);
[US4724961](#) A 19880216 [A] (SHIMOYAMADA MASAHIRO [JP], et al);
[US4937139](#) A 19900626 [A] (GENSKE ROGER P [US], et al);
[US5459978](#) A 19951024 [AP] (WEISS MARK E [US], et al)
- CCI - [A61B50/15](#) ; [A61B50/30](#) ; [A61L2/06](#) ;



[A61L2/07](#) ; [A61L2/26](#) ; [B32B3/266](#) ;
[B32B5/022](#) ; [B32B7/04](#) ; [B32B7/12](#) ;
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[B32B27/12](#) ; [B32B27/18](#) ;
[B32B27/32](#) ; [B32B27/34](#) ;
[B32B27/36](#) ; [B65B55/02](#) ;
[B65B55/10](#) ; [B65D31/02](#) ;
[B65D75/26](#) ; [B65D75/5855](#)

CCA

- [A61B2050/002](#) ; [A61B2050/0065](#) ;
[A61B2050/314](#) ; [A61L2202/121](#) ;
[A61L2202/181](#) ; [B32B2250/05](#) ;
[B32B2262/0253](#) ; [B32B2262/0276](#) ;
[B32B2262/04](#) ; [B32B2262/14](#) ;
[B32B2307/31](#) ; [B32B2307/41](#) ;
[B32B2307/412](#) ; [B32B2307/554](#) ;
[B32B2307/558](#) ; [B32B2307/5825](#) ;
[B32B2307/7145](#) ; [B32B2307/7246](#) ;
[B32B2307/726](#) ; [B32B2307/732](#) ;
[B32B2307/748](#) ; [B32B2439/40](#) ;
[B32B2553/00](#) ; [Y10T428/1334](#) ;
[Y10T428/24942](#) ; [Y10T428/31746](#) ;
[Y10T428/31797](#) ; [Y10T428/31913](#) ;
[Y10T428/31924](#)

CI

- A61B50/15 (EP)
- A61B50/30 (EP)
- A61L2/06 (EP)
- A61L2/07 (EP)
- A61L2/26 (EP)
- B32B3/266 (EP)
- B32B5/022 (EP, US)
- B32B7/04 (EP, US)
- B32B7/12 (EP, US)
- B32B27/08 (EP, US)
- B32B27/10 (EP)
- B32B27/12 (EP)
- B32B27/18 (EP)
- B32B27/32 (EP, US)
- B32B27/34 (EP, US)
- B32B27/36 (EP, US)
- B65B55/02 (EP)
- B65B55/10 (EP)
- B65D31/02 (EP)
- B65D75/26 (EP)
- B65D75/5855 (EP)

CA

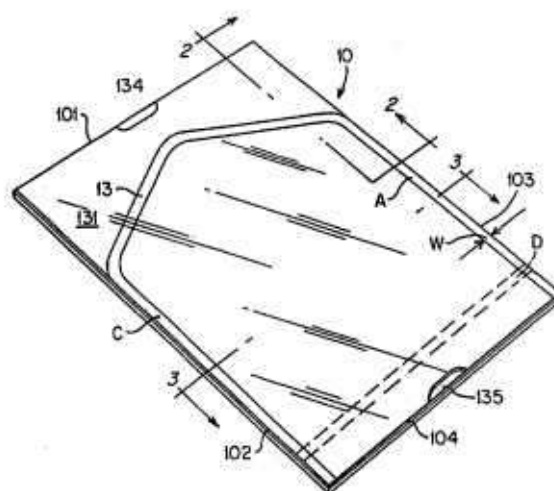
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- A61B2050/0065 (EP)
- A61B2050/314 (EP)
- A61L2202/121 (EP)

	- A61L2202/181 (EP)
	- B32B2250/05 (EP)
	- B32B2250/24 (US)
	- B32B2262/0253 (EP, US)
	- B32B2262/0276 (EP)
	- B32B2262/04 (EP)
	- B32B2262/14 (EP)
	- B32B2307/31 (EP, US)
	- B32B2307/41 (EP)
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	- B32B2307/5825 (EP)
	- B32B2307/7145 (EP)
	- B32B2307/7246 (EP, US)
	- B32B2307/726 (EP, US)
	- B32B2307/732 (EP)
	- B32B2307/748 (EP)
	- B32B2367/00 (US)
	- B32B2377/00 (US)
	- B32B2439/40 (EP)
	- B32B2553/00 (EP, US)
	- Y10T428/1334 (EP, US)
	- Y10T428/24942 (EP, US)
	- Y10T428/31746 (EP, US)
	- Y10T428/31797 (EP, US)
	- Y10T428/31913 (EP, US)
	- Y10T428/31924 (EP, US)
PA	- ONGARD SYSTEMS INC [US] ; AMERICAN NATIONAL CAN CO [US]
TI	- STEAM-STERILIZABLE FLEXIBLE POUCH PACKAGE
AB	- A steam-sterilizable flexible pouch package (10) includes a non-woven barrier web (11), a perforated plastic intermediate web (12), and an imperforate plastic upper web (13) . Line heat seals (14, 15) bonding the webs form a cavity (16) into which sterilizing steam may enter after passing through the barrier and intermediate webs. The line heat seal (15) bonding the upper and intermediate webs is of the delamination failure type. An access opening is provided for insertion of an

object to be sterilized into the cavity after which the access opening is sealed, enclosing the object in the cavity. After steam sterilizing, the package is opened by peeling apart the upper **web** from the intermediate **web** which causes delamination failure of the line heat seal. Preferred materials enable steam sterilization at a temperature of at least about 270 DEG F.

17/20 © EPODOC / EPO

- PN - [WO9420371](#) A1 19940915
- PR - US19930025425 19930301
- AP - [WO1994US02078](#) 19940301
- DT - *; Rep
- CT - */US/ ISR (A1)*
[US4833861](#) A 00000000 [X];
[US3774370](#) A 00000000 [X];
[US2031264](#) A 00000000 [Y];
[US4724961](#) A 00000000 [Y];
[US3410395](#) A 00000000 [Y];
[US4276982](#) A 00000000 [Y]
- CCI - [A61B50/15](#) ; [A61B50/30](#) ; [A61L2/06](#) ;
[A61L2/07](#) ; [A61L2/26](#) ; [B32B7/04](#) ;
[B65B55/02](#) ; [B65B55/10](#) ;
[B65D31/02](#) ; [B65D75/26](#) ;
[B65D75/5855](#)
- CCA - [A61B2050/002](#) ; [A61B2050/0065](#) ;
[A61B2050/314](#) ; [A61L2202/181](#)
- CI - A61B50/15 (EP)
A61B50/30 (EP)
A61L2/06 (EP)
A61L2/07 (EP)
A61L2/26 (EP)
B32B5/26 (US)
B32B7/04 (EP, US)
B32B7/12 (US)
B65B55/02 (EP)
B65B55/10 (EP)
B65D31/02 (EP)
B65D75/26 (EP)
B65D75/5855 (EP)
- CA - A61B2050/002 (EP)
A61B2050/0065 (EP)



- A61B2050/314 (EP)
- A61L2202/181 (EP)
- B32B2262/0253 (US)
- B32B2262/0276 (US)
- B32B2307/31 (US)
- B32B2307/724 (US)
- B32B2307/7246 (US)
- B32B2439/80 (US)
- PA - WEISS MARK E [US]; BAUER
THOMAS J [US]; JOHNSON
RICHARD E [US]
- TI - STERILIZABLE **FLEXIBLE** PEEL-
SEAL **POUCH** PACKAGE
- AB - A steam sterilizable **pouch** (10)
including a steam permeable
bottom **web** (11), a **plastic**
intermediate **web** (12) and
a **plastic** top **web** (13) is disclosed.
Also disclosed is a method for
steam sterilizing an object
within the **pouch** (10). A cantilever
table (20) for loading the **pouch**
(10) is also disclosed.

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- PN - [US4892512](#) A 19900109
- PR - US19870084310 19870811; US19850796632 19851108
- AP - [US19870084310](#) 19870811
- DT - **
- CT - *// STSE (A)*
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[US3608439](#) A 00000000 [];
[US3948705](#) A 00000000 [];
[US4355494](#) A 00000000 [];
[US4528224](#) A 00000000 [];
[US4620320](#) A 00000000 [];
[US4682366](#) A 00000000 [];
[US4703518](#) A 00000000 [];
[DK90167](#) A 00000000 [];
[NO98822](#) A 00000000 []
- CCI - [B29C37/0082](#); [B29C66/1122](#); [B29C66/3464](#); [B29C66/4312](#); [B29C66/4722](#); [B65D33/2541](#)
- CCA - [A44B19/16](#); [B29C65/08](#); [B29C65/222](#); [B29C66/71](#); [B29C66/72328](#); [B29C66/72341](#);
[B29C66/72343](#); [B31B70/8132](#); [Y10S24/50](#); [Y10T24/4406](#)
- CLC - [B29C66/71](#), [B29K2023/06](#), ADD
- [B29C66/71](#), [B29K2023/12](#), ADD
- CI - B29C37/0082 (EP)
- B29C66/1122 (EP)
- B29C66/3464 (EP)

	- B29C66/4312 (EP)
	- B29C66/4722 (EP)
	- B65D33/2541 (EP)
CA	- A44B19/16 (EP)
	- B29C65/08 (EP)
	- B29C65/222 (EP)
	- B29C66/71 (EP)
	- B29C66/72328 (EP)
	- B29C66/72341 (EP)
	- B29C66/72343 (EP)
	- B31B70/8132 (EP)
	- Y10S24/50 (EP)
	- Y10T24/4406 (EP, US)
CL	- B29C66/71, B29K2023/06, ADD (EP)
	- B29C66/71, B29K2023/12, ADD (EP)
PA	- KCL CORP [US]
TI	- Method of making reclosable flexible containers having fastener profiles affixed to exterior of bag walls
AB	- A method for manufacturing a reclosable pouch having front and back walls and an opening along its upper edge. A double web of plastic material is advanced which comprises a front wall and a back wall. First and second fastener profiles are advanced simultaneously therewith. The first fastener profile is sealed on its ends to the exterior of the front wall of the pouch . The fastener profile extends longitudinally near the pouch opening. The second fastener profile is sealed on its ends to the exterior of the back wall of the pouch . The fastener profiles are adapted for interlocking with the front and back walls of the pouch being interposed therebetween.

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PN	- EP0342317 A2 19891123
PNFP	- EP0342317 A3 19900328
PR	- DE19880006627U 19880520
AP	- EP19890103339 19890225
DT	- **
CT	- <i>// STSE (A3)</i> CH363930 A 00000000 [Y]; DE2448106 A1 00000000 [Y]; FR1591625 A 00000000 [A]; DE1701082U U 00000000 [A]; US3002240 A 00000000 [A]; FR1172865 A 00000000 [A]
CCI	- B65D33/1666
CI	- B65D33/1666 (EP)
PA	- (A2) MUELLER KLAUS F PHARMA [DE]
TI	- (A2) Obturator for a pouch made of a flexible material.
	- (A3)

OBTURATOR FOR A **POUCH** MADE OF A **FLEXIBLE** MATERIAL

- AB - (A2)
 Obturator for a **pouch** made of a **flexible** material, in particular for domestic pouches made from **plastic** for the storage of frozen products, made from a cylindrical rod or cylindrical tube (1) as an inner profile member together with a similarly elongate three-quarter tubular member (2) made from an elastically rigid material, preferably **plastic**, as an outer profile member, having an internal diameter (y) corresponding to the external diameter (x) of the cylindrical rod or cylindrical tube (1). The internal diameter (y) of the outer profile member (2) slightly exceeds the external diameter (x) of the inner profile member (1), the inner profile member (1) and/or the outer profile member (2) being provided on the mutually facing surfaces with a clamping **web** (3) or with a plurality of such clamping webs. The outer profile member (2) is provided on its outer surface with a gripping strip (4) or with a plurality of such gripping strips, the inner profile member (1) having a greater length than the outer three-quarter tubular member (2).

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PN - [DE2437968](#) A1 19760219

PNFP - DE2437968 B2 19790426
 - DE2437968 C3 19791220

PR - DE19742437968 19740807

AP - [DE19742437968](#) 19740807

DT - *, Rep

CCI - [B65D81/03](#)

CI - B65D81/03 (EP)

PA - (A1)
 PORTH ERWIN

TI - (A1)
 Padded despatch bag for mail protection - flat **pouch** has internal cushioning and stiffening of front and rear walls

AB - (A1)
 Padded despatch bag for protecting post and commercial despatches from damage, consisting of a rectangular, flat **pouch** with an insertion opening and a closing flap, with an outer casing of paper or similar material and with an inner cushioning for the front- and rear walls. The front and rear walls of the internal cushioning (7) has pressure elastic, **flexible** cushion elements (9), longitudinal stiffening elements (10) and transverse or diagonal stiffening elements (12). Specifically, the cushion elements and stiffening elements are formed or impressed into a **web** of paper or similar material or into a **plastic web** such as hard PVC blister foil of at least 0.05 mm thickness. The cushion elements are impressed as closely packed bumps and hollows with a height of 2 to 5 mm.