

Search history

Search PN=(WO2016054353) (Results 1)

1:

Search [SP]: 1. a multilayer structure comprising at least one barrier layer, said barrier layer comprising a. less than or equal to 12 percent, by weight of the barrier layer, of an anhydride and/or carboxylic acid functionalized ethylene/alpha-olefin interpolymers having a density in the range of from 0.855 to 0.900 g/cm³ and having a melt viscosity less than 50,000 cp at 350 degrees fahrenheit (177 degrees centigrade) and b. at least 60 percent, by weight of the barrier layer, of evoh having from 10 to 32 mole percent units derived from ethylene monomer. 2. the multilayer structure according to claim 1 wherein the functionalized ethylene/alpha-olefin interpolymers has been functionalized with maleic anhydride. 3. the multilayer structure of claim 1 wherein the barrier layer further comprises one or more oxygen scavengers. 4. the multilayer structure of claim 1 wherein the ethylene/alpha-olefin interpolymers has a melt viscosity less than 30,000 cp at 350 degrees fahrenheit (177 degrees centigrade). 5. the multilayer structure of claim 1 wherein the barrier layer has a thickness in the range of from 5 to 150 microns. 6. the multilayer structure of claim 1 wherein the evoh has from 24 to 30 mol percent units derived from ethylene. 7. the multilayer structure of claim 1 wherein the multilayer structure has a total thickness in the range of from 50 microns to 3000 microns. 8. the multilayer structure of claim 1 further comprising an external layer made from a resin which comprises linear low density polyethylene, ultra low density polyethylene, propylene/ethylene interpolymers, propylene/alpha-olefin interpolymers, polyethylene terephthalate, polypropylene, polylactic acid, or any combination thereof. 9. the multilayer structure of claim 1 further comprising one or more additional layers which comprise a polyamide. 10. the multilayer structure of claim 1 further comprising a seal layer made from a resin which comprises linear low density polyethylene, low density polyethylene, ultra low density polyethylene, propylene/ethylene interpolymers, propylene/alpha-olefin interpolymers, or any combination thereof. 11. the multilayer structure of claim 1, further comprising a tie layer adjacent to the barrier layer. 12. the multilayer structure of claim 1 wherein the multilayer structure has a thickness of from 260 to 3000 microns. 13. a thermoformed article comprising the multilayer structure according to claim 12 wherein the article is a tray or container. 14. the multilayer structure according to claim 1, wherein the multilayer structure has a thickness from 50 to 260 microns. 15. a thermoformed article comprising the multilayer structure according to claim 14 wherein the article is a barrier film. (Results 546)

Search 1 and (oxygen scavengers) (Results 1)

3:

Search 2 and (oxygen scavengers) (Results 30)

4:

Title: MYOGLOBIN BLOOMING AGENT CONTAINING SHRINK FILMS, PACKAGES AND METHODS FOR PACKAGING

Abstract: Heat shrinkable, oxygen barrier, packaging films, methods of packaging and packages are provided having a myoglobin blooming agent to provide, promote, enhance or maintain a desirable coloration on the surface of a myoglobin-containing meat product.

Classifications:

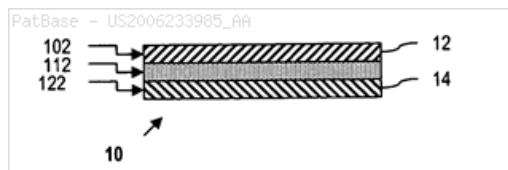
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International (IPC 1-7): A23B4/00 A23B4/10 A23B4/14 A23L1/31 B32B1/06 B32B27/00 B32B27/08 B32B3/08 B32B5/00 B32B7/00 B32B9/04 B65D65/38

CPC: B32B2307/31 B32B2307/7242 B32B5/18 B32B15/08 B32B27/10 B32B2307/308 B32B2307/738 B32B2307/30 B32B2307/75 B65D81/2076 A23L3/3427 B32B2250/02 B32B2307/726 C08J5/18 Y10T428/1303 Y10T428/1352 Y10T428/1359 Y10T428/139 Y10T428/1328 Y10T428/25 B32B27/18 A23B4/20 A23B4/24 B32B7/02 B32B27/00 B32B27/306 B32B27/32 B32B27/34 B32B2250/24 B32B2270/00 B32B2307/412 B32B2307/518 B32B2307/7244 B32B2439/46 B32B2439/62 B32B2439/70 A23B4/18 B32B27/304 B32B27/36 B32B2250/05 B32B2264/104 B32B2274/00 B32B2307/406 B32B2307/736 B32B2250/40 B32B2264/105 B32B27/30 B32B27/308 A23B4/14 B32B5/022 B32B27/12 B32B2262/062 B32B2307/74 B65D81/24 Y10T428/273 Y10T428/23 Y10T428/24331 Y10T428/31993 Y10T442/60 A23L13/03 A23L5/41 B32B7/06 B32B2307/202 B32B2307/208 B32B2405/00 A23B4/10 A23B4/16 A23L3/3445 B32B27/08 B32B27/16 B65D65/40

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US: 206/524.3 423/385 426/129 426/129P 426/132 426/132P 426/264 426/264S 426/265 426/266 426/266P 426/410 426/415 428/138 428/323 428/323S 428/34.1 428/34.100P 428/34.100S 428/34.2 428/34.9 428/34.900P 428/34.900S 428/341 428/35.7 428/35.700P 428/35.9 428/36.9 428/537.5 428/68 428/704 442/327 523/100



Family:

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SON KEVIN FILIP ; NELSON KEVIN PHILIP ; NELSON KEVIN PHILLIP ; POCKAT GREGORY R ; POCKAT GREGORY ROBERT ; SCHELL THOMAS A ; SCHELL THOMAS ANDREW ; SIEGEL DAN ; SIEGEL DAN G NELSON KEVIN P ; SIGEL DEHN DZH ; SIEGEL DAN G ; PHILIP SIEGEL DAN G NELSON KEV ; KEVIN P NELSON ; SIEGAL DAN G ; SIDZHEL DEHN G ; NELSON KEVIN P ; MICHAUD RYAN A ; MENGEL MATTHEW L ; LATREILLE DOUGLAS M

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Designated states:

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

Title: OXYGEN REDUCTION DISPOSABLE KITS, DEVICES AND METHODS OF USE THEREOF

Abstract: The present disclosure relates to Oxygen Reduction Disposable kits (ORDKit), devices and methods for the improved preservation of whole blood and blood components. The improved devices and methods for the collection of blood and blood components provide for whole blood and blood components having reduced levels of oxygen. The devices and methods provide for the rapid preparation of deoxygenated blood and blood components for storage that improves the overall quality of the transfused blood and improves health outcomes in patients.

Classifications:

International (IPC 8-9): A01N A01N1/00 A01N1/02 A1N1/00 A61J1/05 A61J1/14 A61K35/18 A61M1/02 A61M1/34

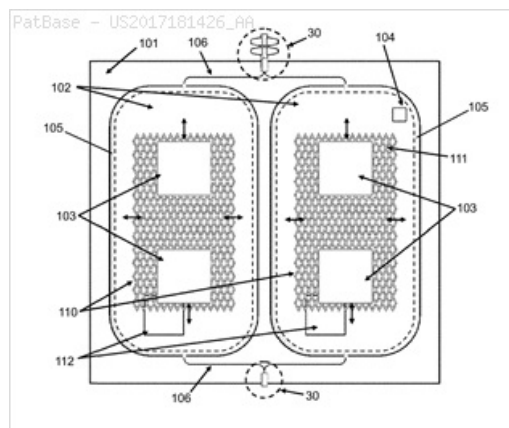
C12N5/078 (Advanced/Invention);

C12N5/078 (Advanced/Non-invention);

A01N (Subclass/Invention)

CPC: A61J1/1468 A01N1/0263 A61M1/0272 A61J1/10 C12M23/14

A01N1/021 A61K35/00 A61M2202/0208



Family:

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Priority:

US20150131130P 20150310 WO2016US21794 20160310 US20170459813 20170315

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Agent(s): IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; MARGARITA CASTELLANOS ABONDANO; BASSIL NICHOLAS CHARLES; LASMAN SITORUS SH MH; DESHIMARU TAKESHI; HAKODA ATSUSHI; ASAI KENJI; YAMASAKI KAZUO; ICHIKAWA SATSUKI; HATTORI HIRONOBU; MATSUDA NAE; ALTMANN CURTIS R 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

Title: MULTILAYER STRUCTURE AND THERMOFORMED ARTICLES MADE THEREFROM

Abstract: A multilayer structure comprising at least one barrier layer, said barrier layer including less than or equal to 12 percent, by weight of the barrier layer, of an anhydride and/or carboxylic acid functionalized ethylene/alpha-olefin interpolymer having a density in the range of from 0.855 to 0.900 g/cm³; and having a melt viscosity less than 50,000 cP at 350 degrees Fahrenheit (177 degrees centigrade); and at least 60 percent, by weight of the barrier layer, of EVOH having from 10 to 32 mole percent units derived from ethylene monomer is provided. Further provided are thermoformed articles made therefrom.

Classifications:

International (IPC 8-9): B32B27/00 B32B27/08 B32B27/18 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B7/12 (Advanced/Invention)

International (IPC 1-7): B32B27/08 B32B27/18 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B7/12

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20140058197P 20141001 US20150515546 20151001 WO2015US53458 20151001

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Inventor(s): (std): CHOPIN III LAMY J ; CHOPIN LAMY J ; CHOPIN LARNY J ; CLAUDIA HERNANDEZ ; DEPLACE FANNY ; FANNY DEPLACE ; FELIPE MARTINEZ BARRENECHE ; HERNANDEZ CLAUDIA ; LAMY J CHOPIN ; MARTINEZ BARRENECHE FELIPE ; MARTINEZ FELIPE ; WALTHER BRIAN W ; BRIAN W WALTHER

Inventor(s): BRIAN WALTHER W ; LAMY CHOPIN J

Agent(s): JOSE ANDRES RINCON USCATEGUI; BOULT WADE TENNANT; ADOLF MARTUA PANGGABEAN; KOBAYASHI HIROSHI; KATAYAMA EIJI; OHMORI NORIO; FRIEDRICH VALERIE K

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

Title: ANTI-SCALPING TRANSDERMAL PATCH PACKAGING FILM

Abstract: A flexible, multilayer packaging film suitable for packaging an article for collecting or administering a physiologically active substance such as transdermal drug delivery patches, oral dissolvable thin strips, and disposable, microfluidic test cassettes having: (a) an article contact layer having at least 90 weight percent of a norbornene ethylene copolymer or derivative thereof and a glass transition temperature of from 65 to 110 degrees centigrade; (b) a polyolefin bulk layer; (c) a first intermediate adhesive layer; (d) an oxygen barrier layer having an oxygen transmission rate of less than less than 0.01 cm³/100 inches²/24 hours at 1 atmosphere and 23 degrees centigrade; (e) a second intermediate adhesive layer; and (f) an exterior protective layer comprising a polymer selected from the group consisting of amorphous polyester, polyamide, polyolefin, nylon, polypropylene, or copolymers, blends or derivatives thereof; wherein said multilayer film has the following properties: a WVTR of less than 0.01 g/100 inches² per 24 hours at Room Temperature (RT) (23 degrees centigrade) and 1 atmosphere; and a thickness of 10 mil or less.

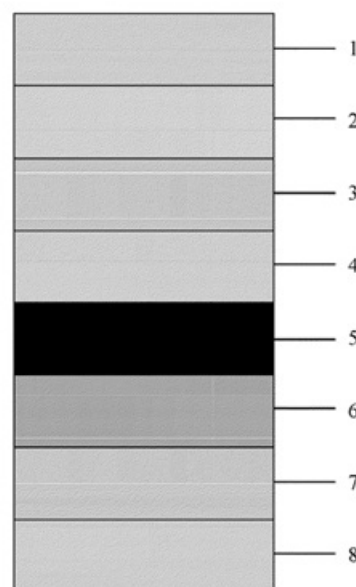
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US: 428/483 604/307

PatBase - US2015225151_AA



Family:

Publication number	Publication date	Application number	Application date
BR112016018382 A2	20170808	BR20161118382	20150210
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US2015225151 AA	20150813	US20140178005	20140211
US2017174405 AA	20170622	US20150115993	20150210
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WO15123211 A8	20160526	WO2015US15246	20150210

Priority:

US20140178005 20140211 US20150115993 20150210 WO2015US15246 20150210

Probable Assignee: BEMIS CO INC

Assignee(s): (std): MCMILLAN LYNDSEY ; LIU YUAN ; JIAN RISHABH ; JAIN RISHABH ; MCMILLAN LYNDSEY A ; OSBORN CHRISTOPHER L ; BEMIS CO INC ; OSBORN CHRIS ; RIIS JENNIFER

Assignee(s): BEMIS HEALTHCARE PACKAGING INC ; PERFECSEAL INC

Inventor(s): (std): MCMILLAN LYNDSEY ; MCMILLAN LYNDSEY A ; OSBORN CHRIS ; OSBORN CHRISTOPHER L ; RIIS JENNIFER ; RIIS JENNIFER L ; JIAN RISHABH ; LIU YUAN ; JAIN RISHABH

Inventor(s): LYNDSEY MCMILLAN ; CHRIS OSBORN ; JENNIFER RIIS ; RISHABH JIAN ; YUAN LIU

Agent(s): VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB

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

Title: CHILD-RESISTANT PACKAGING

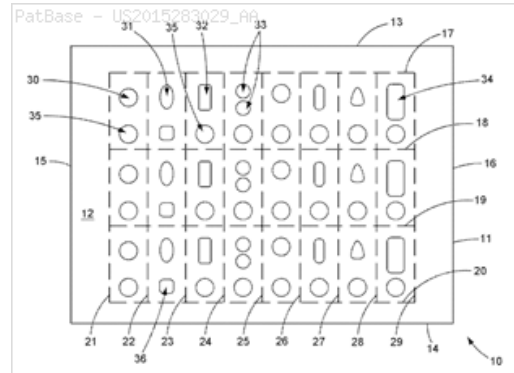
Abstract: A child-resistant blister package having: (a) a product; (b) a multilayer lidstock; and (c) a formed blister film; and the lidstock has at least four layers: i) an inner thermoplastic heat sealable layer; ii) a first intermediate aluminum foil layer; iii) a second intermediate adhesive layer; and iv) an outer polyester or oriented nylon layer with the outer layer having a loop shaped score line therethrough, and the adhesive layer is disposed between layers (ii) and (iv); and optionally has a fifth layer (v) which is a release coating disposed within the loop shape and between layers (ii) and (iv) for manual peelable detachment of at least the outer layer (iv) from (ii) the first intermediate layer; with layer (c) having at least two compartments: (i) a first blister compartment adapted for receiving product (a); and (ii) a second blister compartment having a blister compartment film overlaying and spaced apart from a portion of the lidstock heat seal layer opposite a tab area portion of the score line in the outer layer; and wherein the second blister compartment is adapted for manual inward deformation activation of separation of the lidstock from itself along said score line tab area portion; and product (a) is hermetically sealed between (b) and (c) within said first blister compartment.

Classifications:

International (IPC 8-9): A61J1/03 B32B15/08 B32B15/20 B32B27/34 B32B27/36 B32B3/04 B32B7/06 B32B7/12 B65D65/14 B65D65/40 B65D65/42 B65D75/36 B65D75/58 B65D83/04 B65D85/42 (Advanced/Invention)

CPC: A61J1/035 B65D75/5855 B65D75/585 B65D65/14 B65D65/42 B65D75/367 B65D2565/382 B65D2575/365 B32B3/04 B32B7/06 B32B7/12 B32B15/08 B32B15/20 B32B27/34 B32B27/36 B32B2250/04 B32B2307/31 B32B2307/514 B32B2307/7242 B32B2307/7265 B32B2307/75 B32B2439/00 B65D65/40 B65D2215/00

US: 1/1 206/438 206/484.2

**Family:**

Publication number	Publication date	Application number	Application date
US2015283029 AA	20151008	US20140243408	20140402
US9468584 BB	20161018	US20140243408	20140402
WO15153428 A1	20151008	WO2015US23288	20150330

Priority:

US20140243408 20140402

Probable Assignee: BEMIS CO INC

Assignee(s): (std): BEMIS CO INC ; JANSEN CHRISTOPHER R ; RIIS JENNIFER L

Inventor(s): (std): RIIS JENNIFER L ; JANSEN CHRISTOPHER R

Agent(s): SHEENA E; CONNERS SHEENA E

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

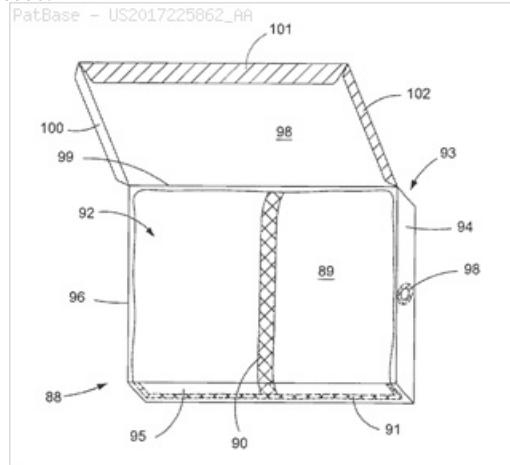
Title: TRANSPARENT RETAIL BAG-IN-BOX PACKAGE

Abstract: A retail bag-in-box transparent package having a flowable product contained in a bag which is contained in a polymeric box where the box has (i) a flat bottom panel, an opposing top panel, and a self-supporting, upstanding, at least partially transparent wall connecting the bottom and top panels, and (ii) an access port through the box adapted for providing communication means for removing product from the bag, which is a flexible thermoplastic bag (capacity ?1 liter (1000 ml)) attached to an interior surface of the box proximate the access port, where at least a portion of the bag has a transparent wall overlapping the transparent box portion to provide visual access to the product.

Classifications:

International (IPC 8-9): B65D5/10 B65D77/06 (Advanced/Invention)

CPC: B65D25/54 B65D77/068 B65D77/065 B65D5/103 B65D77/06 B65D35/56



Family:

Publication number	Publication date	Application number	Application date
US2017225862 AA	20170810	US20140501218	20140808
WO16022148 A1	20160211	WO2014US50344	20140808

Priority:

US20140501218 20140808 WO2014US50344 20140808

Probable Assignee: BEMIS CO INC

Assignee(s): (std): BEMIS CO INC

Inventor(s): (std): CHEN PETER M ; HODSON JAY D ; SCHNABEL DONALD C

Agent(s): RICHESON CEDRIC M

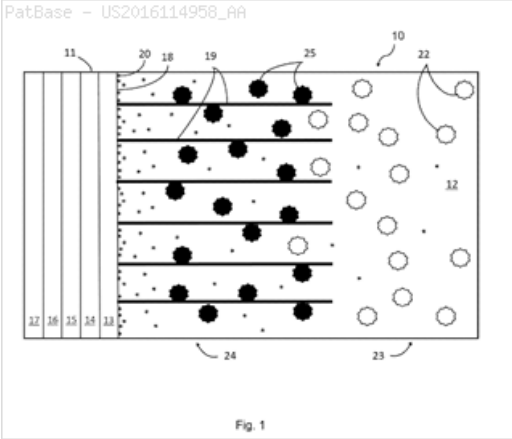
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Title: CHEMOTAXIS ANTIBACTERIAL FILM AND PACKAGE

Abstract: An anti-bacterial package component comprising a packaging substrate having an anti-bacterial agent fixed thereto; and a chemoattractant (bacteria attractant) incorporated with the substrate and adapted for diffusion into a food or toiletry product medium; the attractant selected from the group consisting of monosaccharides, disaccharides, polysaccharides, vitamins, minerals and essential amino acids; wherein the attractant is adapted for biological transport of pathogenic or spoilage bacteria from a product medium in contact with the substrate across an attractant concentration gradient to contact with the fixed anti-bacterial agent whereby the bacteria is killed, immobilized, made steril, or otherwise rendered harmless.

Classifications:

International (IPC 8-9): A01N25/10 A01N33/12 A01P1/00 B65D81/28 C08F8/30 (Advanced/Invention)
CPC: B65D81/28 A01N25/10
US: 424/78.18 424/78.27 424/78.29



Family:

Publication number	Publication date	Application number	Application date
US2016114958 AA	20160428	US20140522846	20141024
WO16064668 A1	20160428	WO2015US55907	20151016

Priority:

US20140522846 20141024

Probable Assignee: BEMIS CO INC

Assignee(s): (std): BEMIS CO INC ; BUSCHE DAVID A ; NELSON KEVIN P

Inventor(s): (std): BUSCHE DAVID A ; NELSON KEVIN P

Agent(s): BIESTERVELD DANIEL D

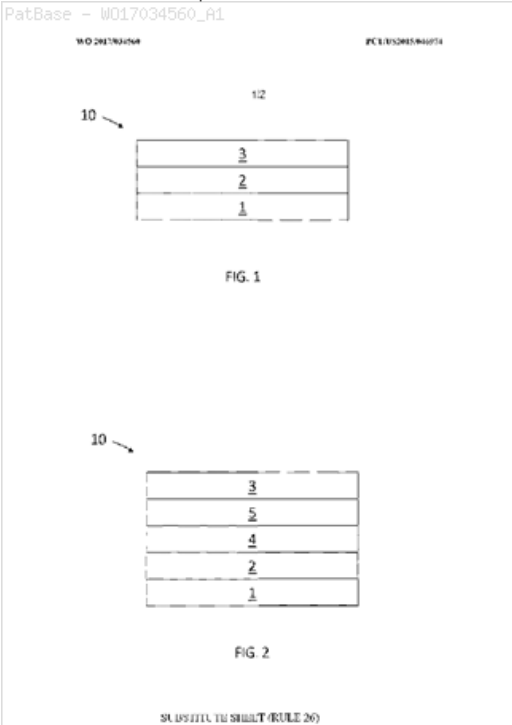
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Title: ANTI-SCALPING PHARMACEUTICAL PACKAGING FILM

Abstract: A film for packaging a pharmaceutical active agent-containing product includes a product-contacting sealing layer that does not scalp the pharmaceutical active product. The product contacting layer includes at least 90 weight percent of a CTFE-VDF copolymer. The pharmaceutical active agent can be nicotine. The product can be a transdermal patch.

Classifications:

International (IPC 8-9): B32B15/08 B32B27/08 B32B27/30 B32B27/32 B32B7/12 C08J5/18 (Advanced/Invention)
CPC: C08J5/18 B32B7/12 B32B15/08 B32B27/08 B32B27/304 B32B27/32 B32B27/322 B32B2307/31 B32B2307/7244 B32B2307/7246 B32B2439/80 B32B2556/00 C08J2327/04 C08J2327/16



Family:

Publication number	Publication date	Application number	Application date
WO17034560 A1	20170302	WO2015US46974	20150826

Priority:

WO2015US46974 20150826

Probable Assignee: BEMIS CO INC

Assignee(s): (std): BEMIS CO INC ; JAIN RISHABH ; LIU YUAN ; PRISCAL MICHAEL D

Inventor(s): (std): JAIN RISHABH ; LIU YUAN ; PRISCAL MICHAEL D

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

Title: BLOOD STORAGE BAG SYSTEM AND DEPLETION DEVICES WITH OXYGEN AND CARBON DIOXIDE DEPLETION CAPABILITIES

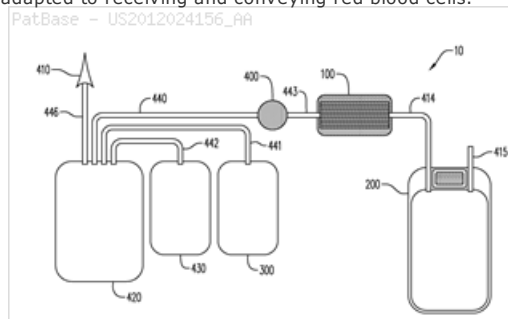
Abstract: A blood storage system. The system has a collection bag for red blood cells; an oxygen/carbon dioxide depletion device; a storage bag for red blood cells; and tubing connecting the collection bag to the depletion device and the depletion device to the storage bag. The depletion device includes a receptacle of a solid material having an inlet and an outlet adapted to receiving and expelling a flushing gas; a plurality of hollow fibers or gas-permeable films extending within the receptacle from an entrance to an exit thereof. The hollow fibers or gas-permeable films are adapted to receiving and conveying red blood cells.

Classifications:

International (IPC 8-9): A01N1/02 A61J1/05 A61J1/10 A61J1/14 A61J3/00 A61K35/14 A61K35/18 A61M1/02 A61M1/18 A61M1/32 A61M1/34 A61M1/36 A61M1/38 A61P7/06 B01D11/00 B01D19/00 B01D53/22 B01D61/00 B01D61/14 B01D63/06 B01D69/00 B01D69/04 B01D71/12 B01D71/14 B01D71/26 B01D71/34 B01D71/42 B01D71/56 B01D71/68 B01J20/26 B01J20/28 B65D81/26 B65D85/00 B65D85/50 C12M1/00 C12N5/00 C12N5/02 C12N5/078 (Advanced/Invention); A61M1/02 C12M1/42 C12N13/00 (Advanced/Non-invention)
CPC: C12N5/0641 B01D53/22 A61M1/3633 A61M1/3679 A61M2202/0415 A61M2202/0427 A61M2202/0439 A61M1/34 A61M1/38 A01N1/0221 A01N1/0226 A61M1/0209 A61M1/0231 A61M2202/0225 A61K35/18 A61M1/342 A01N1/0236 A61M1/0272 A61M2202/0208 A61M2202/0429 A01N1/021 A01N1/0242 A01N1/0205 A61M1/0213 A61M1/0218 A61M1/0281 A01N1/0294 B01D61/147 B01D19/0031 A61M1/262 A61M1/3403 A01N1/0263 A01N1/0278 A61J1/10 A61L2/081 A61L2/082 A61L2202/181 A61L2202/22

European: A01N1/02M A01N1/02M4 A61M1/02B K61J1/10 K61L2/08B K61L2/08D K61L202/181 K61L202/220 K61M1/02B4 K61M202/02A K61M202/02C

US: 1/1 206/524.6 206/524.600S 210/638 422/44 422/44S 422/45 435/2 435/283.1 435/284.1 435/284.100S 435/2P 435/307.1 435/325 604/4.01 604/5.01 604/6.01 604/6.15 95/243 95/46 95/46S 95/51 95/54 96/108 96/153 96/154 96/4 96/6 96/6P 96/8



Family:

Publication number	Publication date	Application number	Application date
AU2010306920 AA	20110421	AU20100306920	20101012
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Priority:

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Probable Assignee: NEW HEALTH SCIENCES INC

Assignee(s): (std): FEDERSPIEL WILLIAM J ; FRANKOWSKI BRIAN J ; NEW HEALTH SCIENCES ; NEW HEALTH SCIENCES INC ; UNIV PITTSBURGH ; VERNUCCI PAUL J ; YOSHIDA TATSURO ; VERNICCI PAUL J ; VERNUCCI PAUL ; YOSHIDA TATSURA ; UNIV PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATION ; UNIV OF PITTSBURGH

Assignee(s): UNIVERSITY OF PITTSBURGH ; OF PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATION ; OF PITTSBURGH UNIV ; OF PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATIO N UNIV ; OF PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATION UNIV ; NEW HEALTH SCIENCES INC230 - 6903 ROCKLEDGE DRIVEBETHESDAMD20817-1818US ; NEW HEALTH SCIENCES INC BETHESDA

Inventor(s): (std): BRIAN J FRANKOWSKI ; TATSURO YOSHIDA ; VERNUCCI PAUL ; WILLIAM J FEDERSPIEL ; YOSHIDA TATSURA ; YOSHIDA TATSURO ; VERNUCCI PAUL J ; VERNICCI PAUL J ; PAUL VERNUCCI ; PAUL J VERNUCCI ; FRANKOWSKI BRIAN J ; FEDERSPIEL WILLIAM J

Inventor(s): YOSHIDA TATSURO WEST NEWTON ; YOSHIDA TATSUROUS ; VERNUCCI PAUL BILLERICA ; VERNUCCI PAUL JUS

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS; IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; MARKS AND CLERK; SMART AND BIGGAR; PATENTANWAELTE SEEMANN AND PARTNER; DE ANNA PIER LUIGI; GERVASI GEMMA; BASSIL NICHOLAS CHARLES; ISERN JORGE; IMASHITA KATSUHIRO; OKADA KENJI; MATSUSHITA MITSURU; KUMAKURA YOSHIO; WATANABE MAKOTO; KURASAWA ICHIRO; INO SARI; DESHIMARU TAKESHI; YAMASAKI KAZUO; HAKODA ATSUSHI; ICHIKAWA SATSUKI; ASAI KENJI; TAKIZAWA TOSHIO; HATTORI HIRONOBU; ARNOLD AND PORTER LLP; ARNOLD AND PORTER KAYE SCHOLER LLP; GREELEY PAUL D; ALTMANN CURTIS R 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 PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD OF EXTENDING COLOR LIFE OF MODIFIED ATMOSPHERE PACKAGED FRESH RED MEAT USING LABIATAE PLANT EXTRACTS

Abstract: The color life of modified atmosphere packaged fresh red meat is extended by contacting the fresh red meat with an extract of a Labiatae herb prior to packaging the meat.

Classifications:

International (IPC 8-9): A23B4/12 A23B4/16 A23B4/18 A23B4/20 A23K3/00 A23L1/272 A23L1/31 A23L3/3418 A23L3/3472 B65B25/06 B65B31/02 B65D81/18 B65D81/20 (Advanced/Invention)

International (IPC 1-7): A23B4/00 A23B4/16 A23B4/20 A23K3/00 A23L1/31 A23L3/3418 A23L3/3472

CPC: A23B4/18 B65D81/2069 A23B4/20 A23B4/12 A23B4/16 A23L3/3418 A23L3/3472 A23V2002/00

European: A23B4/16 A23B4/18 A23B4/20 A23L1/272 A23L3/3418 A23L3/3472 K23V2/00

US: 426/118 426/118P 426/129 426/129P 426/264 426/265 426/316 426/324 426/324P 426/418 426/542

PatBase - R2522633_H

END

Family:

Publication number	Publication date	Application number	Application date
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AU200174865 A5	20011203	AU20010074865D	20010518
CA2409320 AA	20021118	CA20012409320	20010518
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US2006078657 AA	20060413	US20050281024	20051117
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US2017295808 AA	20171019	US20170639207	20170630
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US7037543 C3	20141016	US20030276675	20031006
WO0189308 A2	20011129	WO2001US16244	20010518
WO0189308 A3	20020221	WO2001US16244	20010518

Priority:

US20000205776P	20000519	US20010276675	20010518	WO2001US16244	20010518
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Probable Assignee: KALSEC INC

Assignee(s): (std): JONES THOMAS S ; KALAMAZOO HOLDINGS INC ; KALSEC INC ; REYNHOUT GREGORY S ; SANDUSKY CONSTANCE L

Inventor(s): (std): JONES S ; REYNHOUT GREGORY S ; REYNHOUT S ; SANDUSKY CONSTANCE ; SANDUSKY CONSTANCE L ;

SANDUSKY L ; JONES THOMAS S

Inventor(s): REYNHOUT GREGORY ; THOMAS S JONES ; JONES THOMAS ; CONSTANCE L SANDUSKY ; GREGORY S
REYNHOUT

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MACRAE AND CO; FLYNN THIEL BOUTELL AND TANIS PC; THE FIRM OF
HUESCHEN AND SAGE; FIRM OF HUESCHEN AND SAGE

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT LI LU MC MX NL NZ PT SE TR US

Title: **OXYGEN** SCAVENGING FILMS

Abstract: A well dispersed **oxygen** scavenging particulate compounded in a polymer matrix. The **oxygen** scavenging formulation consists of iron powder with a mean particle sizes within 1-25 um and pre-coated with at least one or more activating and acidifying powdered compounds, usually in the form of solid organic and inorganic salts of alkaline and alkaline earth metals such as sodium chloride and sodium bisulfate. The pre-coated iron particulate is dispersed into a polymer resin by using a conventional melt processing method such as twin-screw extrusion. The **oxygen** scavenging compound is mixed with polymer pellets in the solid state prior to melting. The polymer resin pellets and the coated iron powder are preferably treated with a surfactant in the dry state to help dispersing the iron/salt powder with the resin pellets. The melt extruded compounds are pelletized and kept in the dry state to prevent premature activation.

Classifications:

International (IPC 8-9): A23B4/00 A45C A45C 11/00 B01D53/14 B01J20/02 B01J20/28 B22F1/00 B22F1/02 B22F3/20 B32B B32B15/01 B32B27/14 B32B27/18 B32B27/34 B32B37/14 B65B55/00 B65D5/00 B65D65/40 B65D65/46 B65D81/24 B65D81/26 B65D85/00 B65D90/02 C08J C08J3/07 C08J3/20 C08J5/18 C08J9/00 C08J9/06 C08J9/14 C08K C08K3/08 C08K9/00 C08K9/02 C08K9/04 C08L101/00 C08L25/06 C09K3/00 (Advanced/Invention); A45C B32B C08J C08K (Subclass/Invention)
International (IPC 1-7): B32B27/18 B65D1/34 C08J3/07 C08J3/20 C08J5/18 C08J9/00 C08K9/00
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US: 156/244.11 156/244.110S 206/524.3 206/524.300P 206/524.4 206/524.400S 252/188.28 252/188.280S 426/118 426/118P 426/395 426/395S 428/328 428/328S 428/35.2 428/35.200P 428/407 428/407S

PatBase - US2010255231_AA

Patent Application Publication Oct. 7, 2010 US 2010/0255231 A1

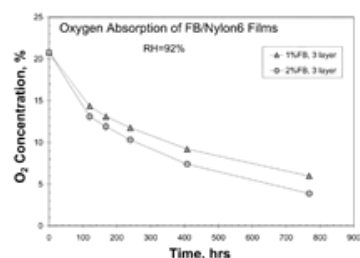


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
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IL215469 A0	20111229	IL20100215469	20100322
IL221811 A0	20121129	IL20110221811	20110211
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KR20110136882 A	20111221	KR20117025855	20100322
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WO11112410 A3	20120112	WO2011US26972	20110303
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Priority:

US20090416685 20090401 US20100719160 20100308 WO2010US28102 20100322
US20100777835 20100511 WO2011US24430 20110211 WO2011US26972 20110303

Probable Assignee: MULTISORB TECHNOLOGIES INC

Assignee(s): (std): CHAU CHIEH CHUN ; CHIEH CHUN CHAU ; MULTISORB TECH INC ; POWERS THOMAS H ; SOLOVYOV STANISLAV E ; MULSTISORB TECHNOLOGIES INC ; INCORVIA SAMUEL A ; PAYNE DAVID S ; ABU GHAZALEH INTELLECTUAL PROP ; MALTISORB TEKNOLODZHIZ INK

Assignee(s): ABU GHAZALEH INTELLECTUAL PROPERTY TMP AGENTS ; MULTISORB TECHNOLOGIES, INC. ; HSBC BANK USA

Inventor(s): (std): CHAU CHIEH CHUN ; CHIEH CHUN CHAU ; CHIEN CHUN CHAU ; INCORVIA SAMUEL A ; POWERS THOMAS ; POWERS THOMAS H ; SOLOVYOV STANISLAV E ; SOLOVYOV STANISLAV E ; SOLOV EV STANISLAV E ; PAYNE DAVID S ; PAUEHRS TOMAS KH ; CHIEKH CHUN CHAU

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

Title: ANAEROBIC BLOOD STORAGE CONTAINERS

Abstract: A blood storage container for the anaerobic storage of blood, having enhanced sealing methods and materials for the preservation of stored blood is provided.

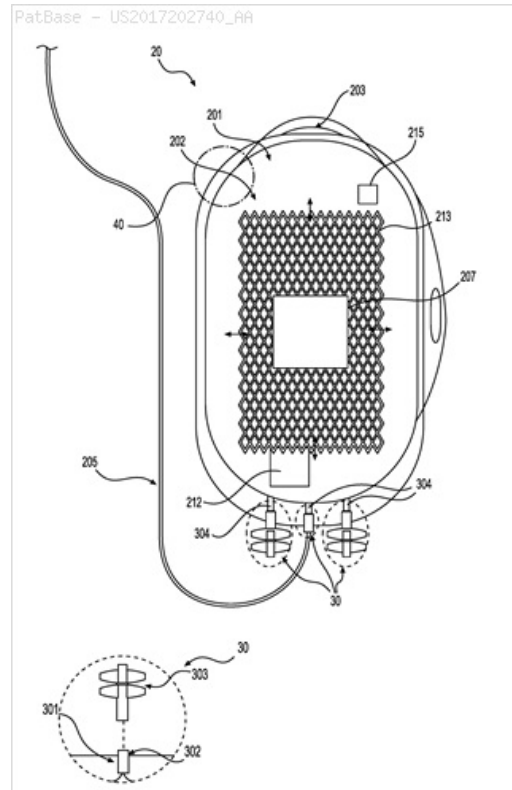
Classifications:

International (IPC 8-9): A01N1/02 A61B19/00 A61J A61J1/05 A61J1/10 A61J1/14 A61J1/18 A61J3/00 B32B1/02 B32B27/28

B65D81/26 (Advanced/Invention);

A61J (Subclass/Invention)

CPC: A61J1/1487 A61M1/0209 B65D81/266 A61J1/1462 A61J1/1475 A61J1/18 B65D81/268 A01N1/0263 A61J1/10 A61J1/1468 B32B1/02 B32B3/06 B32B3/08 B32B7/12 B32B27/08 B32B27/18 B32B27/205 B32B27/286 B32B27/306 B32B27/32 B32B27/34 B32B27/36 B32B2250/24 B32B2307/308 B32B2307/412 B32B2307/414 B32B2307/514 B32B2307/7242 B32B2307/7244 B32B2307/7246 B32B2307/7265 B32B2439/80 B32B2535/00 B32B27/28



Family:

Publication number	Publication date	Application number	Application date
AU2016253005 AA	20161027	AU20160253005	20160422
BR112017022417 A2	20180710	BR20171122417	20160422
CA2983295 AA	20171018	CA20162983295	20160422
CN107847395 A	20180327	CN201680023454	20160422
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EP3285711 A1	20180228	EP20160784043	20160422
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IL255166 A0	20171231	IL20160255166	20160422
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KR20180012244 A	20180205	KR20177030066	20160422
MX2017013524 A1	20180522	MX20170013524	20160422
US2017202740 AA	20170720	US20170475898	20170331
US2018000689 AA	20180104	US20170708925	20170919
US9801784 BB	20171031	US20170475898	20170331
WO16172645 A1	20161027	WO2016US29069	20160422

Priority:

US20150151839P 20150423 US20150151957P 20150423 WO2016US29069 20160422
US20170475898 20170331 US20170708925 20170919

Probable Assignee: NEW HEALTH SCIENCES INC

Assignee(s): (std): NEW HEALTH SCIENCES INC

Assignee(s): SUTTON JEFFREY KARL ; SARITA JANCARLO ; RENGANATHAN NARENDRAN ; WOLF MICHAEL ; ZOCCHI MICHAEL ; YOSHIDA TATSURO ; CORDERO RAFAEL ; KEEGAN PHILIP MICHAEL

Inventor(s): (std): CORDERO RAFAEL ; JANCARLO SARITA ; JEFFREY KARL SUTTON ; KEEGAN PHILIP MICHAEL ; MICHAEL WOLF ; MICHAEL ZOCCHI ; NARENDRAN RENGANATHAN ; PHILIP MICHAEL KEEGAN ; RAFAEL CORDERO ; RENGANATHAN NARENDRAN ; SARITA JANCARLO ; SUTTON JEFFREY KARL ; TATSURO YOSHIDA ; WOLF MICHAEL ; YOSHIDA TATSURO ; ZOCCHI MICHAEL

Agent(s): IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; MARGARITA CASTELLANOS ABONDANO; BASSIL NICHOLAS CHARLES; LASMAN SITORUS SH MH; DESHIMARU TAKESHI; HAKODA ATSUSHI; ASAI KENJI; YAMASAKI KAZUO; ICHIKAWA SATSUKI; HATTORI HIRONOBU; ARNOLD AND PORTER KAYE SCHOLER LLP; MARSH DAVID R 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

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SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PACKAGE AND METHOD

Abstract: A package is provided, including a bag formed of a material comprising at least one layer, the bag having an exterior portion, an interior portion, an oxygen barrier and a moisture barrier, and being capable of holding a vacuum. Packaged therein is an item comprising a frangible material with a crush resistance or resistance to compression of less than about 7.0PSIA, the item being held in the interior portion of the bag. The interior portion of the bag has less than about 1ppm hexanal therein. A method for packaging the item is also provided.

Classifications:

International (IPC 8-9): A23L1/164 B32B27/06 B65B25/06 B65B31/00 B65B31/02 B65B31/04 B65D30/08 B65D33/00 B65D77/02

B65D81/20 (Advanced/Invention);

B65B9/20 (Advanced/Non-invention);

B65D30/08 B65D33/00 B65D77/00 B65D81/20 (Core/Invention)

International (IPC 1-7): A23B4/00 B65B31/00 B65B31/02 B65B31/04 C12C1/027

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A23P10/20 B32B27/06 B65D81/2023

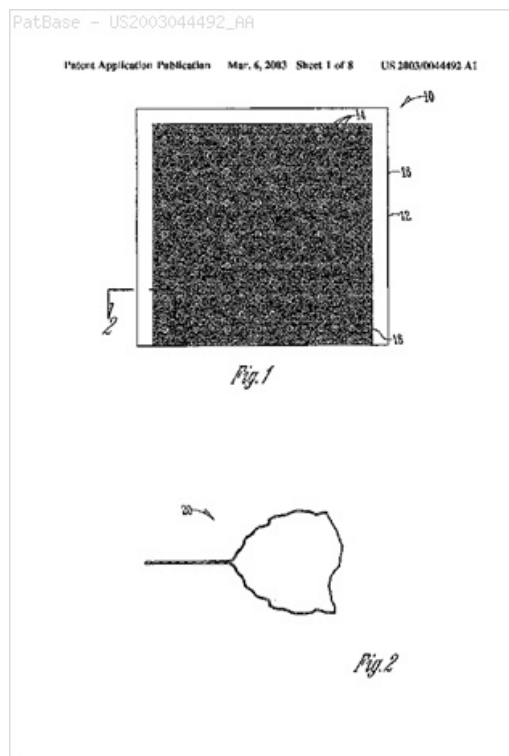
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B65D81/20B2 B65D81/20F2 L65B31/04D1 L65B9/20

US: 426/106 426/106P 426/124 426/392 426/410 426/410P 426/414

426/512 426/658

**Family:**

Publication number	Publication date	Application number	Application date
CA2453212 AA	20040107	CA20022453212	20020828
US2003044492 AA	20030306	US20010945318	20010831
US2004166206 AA	20040826	US20030374004	20030225
US2008057169 AA	20080306	US20070975656	20071019
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WO03020593 A1	20030313	WO2002US27356	20020828

Priority:

US20010945318 20010831 WO2002US27356 20020828 US20030374004 20030225
US20070975656 20071019

Probable Assignee: GENERAL MILLS INC

Assignee(s): (std): FUNK DEAN F ; GEN MILLS INC ; HARRISON ROBERT J ; ARCHIBALD WILLIAM E ; GEN MILLS IP HOLDINGS II LLC ; KNIGGE WAYNE I ; MCCLURE KAREN E ; SUMPMANN PATRICK J

Assignee(s): GENERAL MILLS INC ; GENERAL MILLS IP HOLDINGS II LLC

Inventor(s): (std): ARCHIBALD WILLIAM E ; FUNK DEAN F ; HARRISON ROBERT J ; KNIGGE WAYNE I ; MCCLURE KAREN E ; SUMPMANN PATRICK J

Inventor(s): HARRISON ROBERT ; FUNK DEAN ; ARCHIBALD WILLIAM

Agent(s): FETHERSTONHAUGH AND CO; JOHN A OTOOLE ESQ; BARBARA; JOHN A

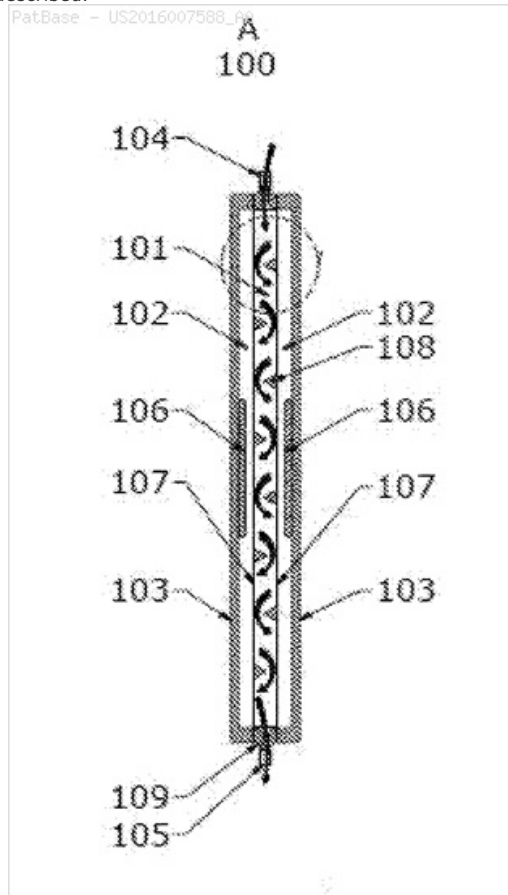
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Title: GAS DEPLETION AND GAS ADDITION DEVICES FOR BLOOD TREATMENT

Abstract: Devices for the preparation of depleted blood products that provide for the depletion of oxygen, carbon dioxide, or oxygen and carbon dioxide are described. In addition, devices for the replenishment of oxygen and other gases to an anaerobic blood product are described. Methods and systems incorporating depletion and addition devices are provided to optimize the preparation, storage and transfusion of blood products to a recipient are described.

Classifications:

International (IPC 8-9): A01N1/02 A61M1/02 A61N1/02 B01D19/00
B01D61/00 B01D71/02 B01D71/26 B01D71/34 B01D71/36 B01D71/46
B01D71/48 B01D71/68 B01D71/70 C12M1/00 (Advanced/Invention);
A61M1/02 (Advanced/Non-invention);
A01N (Subclass/Invention)
CPC: A01N1/0242 A01N1/0263 A61M1/0281 B01D19/0031 B01D2257/104
US: 435/2 435/307.1



Family:

Publication number	Publication date	Application number	Application date
AU2014223165 AA	20140904	AU20140223165	20140228
AU2014223165 BB	20170413	AU20140223165	20140228
CA2902061 AA	20150820	CA20142902061	20140228
EP2961269 A1	20160106	EP20140711088	20140228
HK1219205 A1	20170331	HK20160107198	20160621
JP2016517395 T2	20160616	JP20150560367T	20140228
US2016007588 AA	20160114	US20140771438	20140228
US2018153157 AA	20180607	US20170842824	20171214
US9877476 BB	20180130	US20140771438	20140228
WO14134503 A1	20140904	WO2014US19537	20140228

Priority:

US20130770516P 20130228 US20140771438 20140228 WO2014US19537 20140228
US20150771438 20150828 US20170842824 20171214

Probable Assignee: NEW HEALTH SCIENCES INC

Assignee(s): (std): NEW HEALTH SCIENCES INC

Assignee(s): RUTH THOMAS R ; LEVESQUE STEVEN F

Inventor(s): (std): RUTH THOMAS R ; LEVESQUE STEVEN F

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; BASSIL NICHOLAS CHARLES; YAMASAKI KAZUO; NISHIJIMA TAKAKI; HAKODA ATSUSHI; ICHIKAWA SATSUKI; ASAI KENJI; DESHIMARU TAKESHI; ARNOLD AND PORTER KAYE SCHOLER; ALTMANN CURTIS R 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

Title: **OXYGEN** SCAVENGER

Abstract: An **oxygen** scavenger comprises an oxygen absorbent composition and an oxygen permeable film covering the oxygen absorbent composition and including an asymmetric porous membrane whose outer surface portion in the thickness direction of the asymmetric porous membrane is formed as a dense skin layer. Since the dense skin layer is very thin, the oxygen permeability to the oxygen absorbent composition through the oxygen permeable film can be maintained sufficiently high. At the same time, since the dense skin layer has a sufficiently high barrier property as well as a high oxygen permeability, contact of the substances stored in a container with the oxygen absorbent composition can be surely prevented. The substances stored in the container attached with the **oxygen** scavenger can be prevented from deterioration due to the oxygen present in the container by a high oxygen absorption ability of the scavenger, and maintained in a good or fresh condition for a long term.

Classifications:

International (IPC 8-9): A23L3/3436 B01D53/14 B01D53/22 B01D69/00 B01J20/28 B65D81/26 (Advanced/Invention); B01D53/14 B01D69/00 (Advanced/Non-invention); A23L3/34 B01D53/14 B01D69/00 B65D81/26 (Core/Invention); B01D53/22 B01D69/00 (Core/Non-invention)

International (IPC 1-7): A23L3/3436 B01D53/14 B01D53/22 B01D69/00 B01D69/12 B01D71/06 B01D71/66 B01D71/68 B01J20/28 B32B27/12 B65D51/26 B65D51/28 B65D53/00 B65D81/26

CPC: Y10T428/1366 Y10T428/1376 Y10T428/1383 Y10T428/1393 Y10T428/21 Y10T428/24992 A23L3/3436 B65D81/267 Y10T428/24998 Y10T428/31663 Y10T428/31794 Y10T442/674 Y10T428/249978 Y10T428/249979

European: A23L3/3436 B65D81/26F1

US: 206/204 206/484.1 206/484.2 215/228 215/261 215/347 215/348 215/349 215/350 428/218 428/246 428/252 428/283 428/286 428/287 428/315.5 428/315.7 428/315.9 428/36.2 428/36.5 428/36.7 428/36.91 428/362 428/365 428/367 428/447 428/448 428/482 428/64 428/64.1 442/394

PatBase - US5143763_A

U.S. Patent Sep. 3, 1992 Sheet 1 of 2 5,143,763

FIG. 1

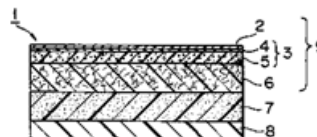
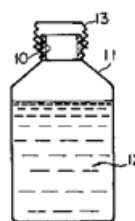


FIG. 2



Family:

Publication number	Publication date	Application number	Application date
AU199180341 A1	19920116	AU19910080341	19910711
AU643303 B2	19931111	AU19910080341	19910711
CA2046852 AA	19920114	CA19912046852	19910711
EP0466515 A2	19920115	EP19910306375	19910715
EP0466515 A3	19920603	EP19910306375	19910715
JP4074515 A2	19920309	JP19900186457	19900713
KR19920002328 A	19920228	KR19910011975	19910713
TW215904 B	19931111	TW19910105723	19910723
US5143763 A	19920901	US19910728528	19910711

Priority:

JP19900186457 19900713 CA19912046852 19910711

Probable Assignee: KIRIN BREWERY

Assignee(s): (std): KIRIN BREWERY ; TORAY IND ; TORAY INDUSTRIES

Assignee(s): TORAY IND INC ; TORE KKJP ; YAMADA SHINICHI ; UEMURA TADAHIRO ; SHIRAKURA AKIRA ; TORE KK ; TORAY INDUSTRIES INC ; AOKI TAKAO ; HIMESHIMA YOSHIO ; KIRIN BEER KK ; KIRIN BREWERY CO LTD ; KIRIN BREWERY COMPANY LIMITED ; SAKUMA ISAMU

Inventor(s): (std): SAKUMA ISAMU ; SHIRAKURA AKIRA ; UEMURA TADAHIRO ; YAMADA SHINICHI ; AOKI TAKAO ; HIMESHIMA YOSHIO ; HIMESHIMA YOSHIO TORAY YOKOHAM

Inventor(s): HIMESHIMA YOSHIO TORAY YOKOHAMARYO ; YOSHIO HIMESHIMA ; TAKAO AOKI ; TADAHIRO UEMURA ; SHINICHI YAMADA ; ISAMU SAKUMA ; AKIRA SHIRAKURA

Agent(s): GRIFFITH HACK; SMART AND BIGGAR

Designated states: BE DE DK ES FR GB IT NL

Title: Fasteners for reclosable packages with barrier properties

Abstract: A reclosable package includes a pair of opposing walls, a reclosable seal and a barrier partition. The pair of opposing wall panels are joined along a pair of opposing sides and a bottom bridges the opposing sides to create a receptacle space having a mouth end opposite the bottom. The reclosable seal extends along the mouth end and includes first and second opposing reclosable elements. The first and second reclosable elements are releasably engageable to each other. The barrier partition comprises at least a first layer that is substantially impermeable to at least one of oxygen, nitrogen and carbon dioxide. The barrier partition extends substantially across the pair of opposing wall panels in the receptacle space.

Classifications:

International (IPC 8-9): A44B19/16 A44B19/32 B65D30/02 B65D33/00 B65D33/25 B65D33/28 B65D33/34 (Advanced/Invention); B65D33/00 (Advanced/Non-invention);

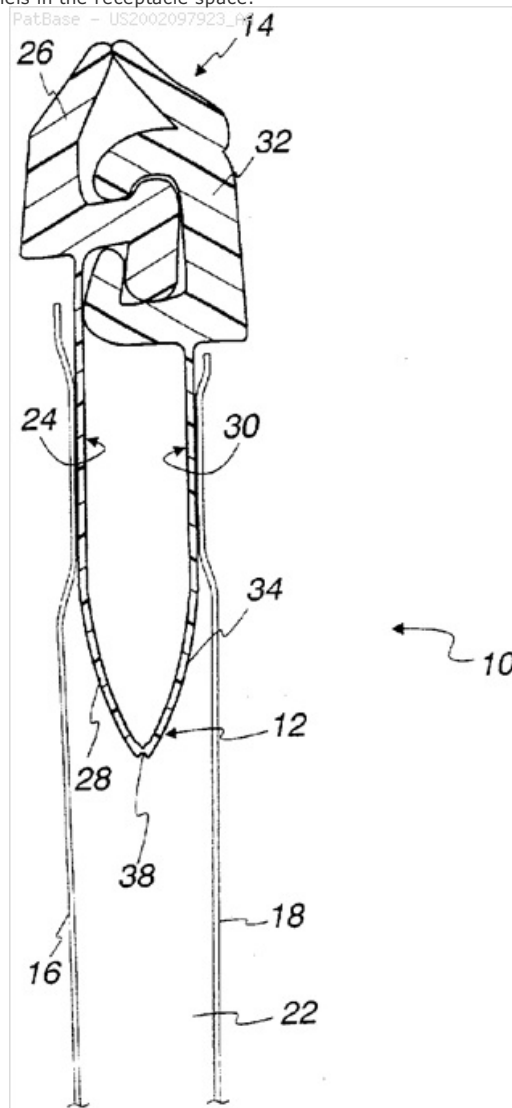
A44B19/10 A44B19/24 B65D33/00 B65D33/25 (Core/Invention)

International (IPC 1-7): A44B19/16 A44B19/32 B65D30/02 B65D33/00 B65D33/16 B65D33/25 B65D33/28 B65D33/34

CPC: B65D33/2508 B65D33/2591 B65D81/267

European: B65D33/25A B65D33/25C B65D81/26F1

US: 383/5 383/61.2 383/61.3 383/64



Family:

Publication number	Publication date	Application number	Application date
AU200118023 A1	20010703	AU20010018023	20001127
AU200118023 A5	20010703	AU20010018023	20001127
CA2394607 AA	20020618	CA20002394607	20001127
CA2394607 C	20070109	CA20002394607	20001127
EP1250267 A1	20021023	EP20000980807	20001127
EP1250267 A4	20090318	EP20000980807	20001127
JP2003517975 T2	20030603	JP20010546545T	20001127
US2002097923 AA	20020725	US20020102783	20020321
US2002131653 AA	20020919	US20020147405	20020516
US6499878 BA	20021231	US19990468165	19991221
WO0146028 A1	20010628	WO2000US32339	20001127

Priority:

US19990468165 19991221 WO2000US32339 20001127 US20020102783 20020321
US20020147405 20020516

Probable Assignee: REYNOLDS PRESTO PRODUCTS INC

Assignee(s): (std): PACTIV CORP ; THOMAS TOBY R

Assignee(s): PACTIV LLC ; REYNOLDS CONSUMER PRODUCTS INC ; REYNOLDS PRESTO PRODUCTS INC ; BANK OF NEW

YORK MELLON COLLATERAL AGENT AS ; DATA ADVISORS LLC ; DOBRESKI DAVID V ; LONG STEVE P

Inventor(s): (std): DOBRESKI DAVID V ; LONG STEVE P ; THOMAS TOBY R

Inventor(s): TOBY R THOMAS ; STEVE P LONG ; DAVID V DOBRESKI

Agent(s): MARKS AND CLERK

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ
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 MZ 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 UZ VN YU ZA ZW

Title: SYSTEMS AND METHODS FOR STORING AND TRANSPORTING PERISHABLE FOODS

Abstract: Disclosed are methods for producing and maintaining a very low level of oxygen in a sealed container for maintaining a foodstuff. In one aspect, the method comprises (1) a first oxygen reduction step wherein the oxygen content in said container is reduced to no more than 20,000 ppm; (2) maintaining the foodstuff in the container such that the oxygen content in the foodstuff and the gaseous environment approaches equilibrium; and (3) a second oxygen reduction step wherein the oxygen content in said container is reduced to no more than 2000 ppm. Systems useful in the methods disclosed herein.

Classifications:

International (IPC 8-9): A23B4/16 A47J39/00 (Advanced/Invention)

CPC: A23L3/3436 A23B7/152 Y02A40/924

US: 426/418

PatBase - W014035439_A1

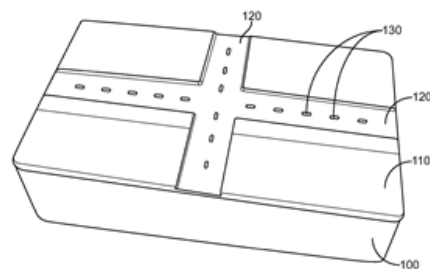


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2014065274 AA	20140306	US20120601796	20120831
WO14035439 A1	20140306	WO2012US54474	20120910
WO14035440 A1	20140306	WO2012US54478	20120910

Priority:

US20120601796 20120831

Probable Assignee: GLOBAL FRESH FOODS

Assignee(s): (std): BELL LAURENCE D ; BOLEJACK KEVIN ; GLOBAL FRESH FOODS ; NEMIROFF DAVID

Inventor(s): (std): BELL LAURENCE D ; BOLEJACK KEVIN ; NEMIROFF DAVID

Agent(s): RADOMSKY LEON ESQ; RADOMSKY LEON

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

Title: MULTILAYER FILM MADE OF RECYCLABLE THERMOPLASTIC MATERIAL AND CONTAINER COMPRISING SAID FILM

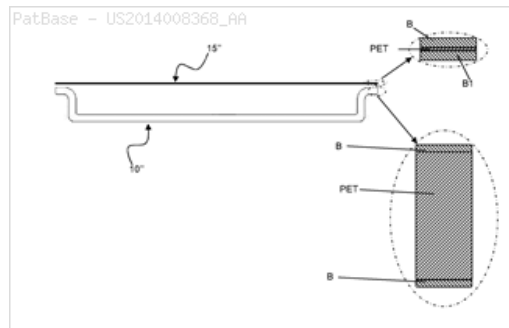
Abstract: A multilayer film is described made of recyclable thermoplastic material comprising a layer (A) of unoriented amorphous PET combined with at least one barrier layer (B) which comprises unoriented amorphous PET, a salt of a transition metal and an oxidisable polyester-ether, in which the quantity of unoriented amorphous PET is at least 95 percent in weight of the total film and in which the permeability to oxygen is below 10 cc/m²/24 h/atm. The film is particularly suitable for the production of food-grade containers and packages with high barrier effect and high transparency which, at the same time, are fully recyclable in the same application.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/18 B32B27/36 B65D1/02 B65D77/20 (Advanced/Invention)

CPC: B32B27/08 Y10T428/1379 Y10T428/31786 B32B27/18 B32B27/36 B32B2250/02 B32B2250/03 B32B2250/40 B32B2270/00 B32B2272/00 B32B2307/412 B32B2307/7242 B32B2307/7244 B32B2439/00 B65D1/0215 B32B2307/518 B65D77/2024

US: 1/1 220/359.3 264/87 428/36.6 428/480



Family:

Publication number	Publication date	Application number	Application date
DE602012015383 D1	20160421	DE201260015383T	20120321
DK2688745 T3	20160606	DK20120713915T	20120321
EP2688745 A1	20140129	EP20120713915	20120321
EP2688745 B1	20160309	EP20120713915	20120321
ES2573121 T3	20160606	ES20120713915T	20120321
ITMI20110452 A1	20120923	IT2011MI00452	20110322
US2014008368 AA	20140109	US20120006485	20120321
US9181012 BB	20151110	US20120006485	20120321
WO12126951 A1	20120927	WO2012EP55006	20120321

Priority:

IT2011MI00452 20110322 EP20120713915 20120321 WO2012EP55006 20120321

Probable Assignee: PLASTIC RELIFE SRL

Assignee(s): (std): PLASTIC RELIFE SRL ; SEVERINI TONINO

Inventor(s): (std): SEVERINI TONINO

Agent(s): ZANOLI ENRICO; DEL VALLE SONIA; NOVAK DRUCE CONNOLLY BOVE AND QUIGG LLP; ZANOLI ENRICO 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

Title: MONO- OR MULTI-LAYER FILM

Abstract: A one- or multilayered film is presented, in which case the film comprises at least one layer that contains at least one thermoplastic olefin homo or copolymer, modified if need be. According to the invention, said layer contains additionally, at least, one polyester. In addition, the use of such film as sliding film or preliner in pipe renovation using the so-called tube lining technique is presented, in which case the film is used for laying it on the inner wall of a pipe laid underground that will be renovated, preferably a sewer pipe, so an insertion pipe with a curable carrier material can be pulled in sliding fashion over the sliding film laid on the pipe. The film according to the invention can also be used as packaging material for food or for the so-called non-food sector.

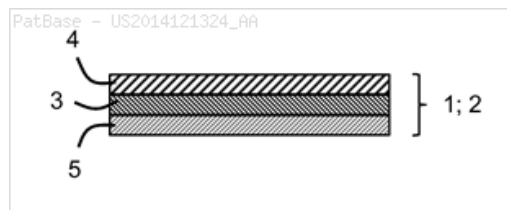
Classifications:

International (IPC 8-9): B32B27/08 B32B27/18 B32B27/32 B32B27/36

B32B5/18 C08G79/08 C08J5/18 C08L67/03 (Advanced/Invention)

CPC: C08L67/03 B32B27/32 B32B27/36 C08J5/18 C08J2367/02 C08J2423/00

US: 525/177



Family:

Publication number	Publication date	Application number	Application date
DE102013111428 A1	20140515	DE201310111428	20131016
EP2727724 A1	20140507	EP20130188976	20131016
US2014121324 AA	20140501	US20130061838	20131024
US2018016434 AA	20180118	US20170679253	20170817
US10040935 BB	20180807	US20170679253	20170817

Priority:

DE201210110220 20121025 DE201310111428 20131016 US20130061838 20131024
US20170679253 20170817

Probable Assignee: BUERGOFOL GMBH

Assignee(s): (std): BUERGOFOL GMBH

Inventor(s): (std): BOUTRID ABDEL KADER ; SCHLEICHER FRANZ ; STARK KURT ; SCHLEICHER GREGOR ; SCHLEICHER FRANZ DR

Agent(s): SCHLIEF THOMAS P; DORITY AND MANNING PA

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

Title: Process of packaging fresh meat

Abstract: A method for packaging fresh meat in a substantially oxygen-free atmosphere, whereby the packaging provides for a prolonged shelf life of the packaged meat products so that the meat will bloom to a desired red color when the packaging is opened. The packaging includes a packing tray which is sized for receiving a piece of fresh meat of predetermined cut. The tray is overwrapped with a web of clear plastic wrapping material. The overwrapped tray is ventilated to ensure gas communication between enclosed regions of the overwrapped tray and the outside ambient without blockage due to run off juices from the meat product or shifting of the meat product within the tray during transport. A number of similarly ventilated overwrapped trays are then placed within an outer barrier bag which is first evacuated of normal atmosphere and then flushed with a preservation-enhancing gas. The outer barrier bag is then sealed. Upon opening of the outer barrier bag, exposure to oxygen causes the packaged meat products to bloom to a desired fiery red color. Upon removal from the outer barrier bag, the ventilated overwrapped trays are ready for retail case-ready display without the need for repackaging or cosmetic repair.

Classifications:

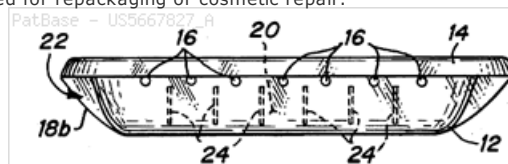
International (IPC 8-9): A23B4/00 A23B4/06 A23B4/16 B65B25/06 B65B31/04 B65D77/00 B65D81/20 B65D81/26 (Advanced/Invention); A23B4/00 A23B4/06 (Advanced/Non-invention); A23B4/00 A23B4/06 A23B4/14 B65B25/00 B65D77/00 B65D81/20 B65D81/26 (Core/Invention)

International (IPC 1-7): A21D10/02 A23B4/00 A23B4/16 B65B25/06 B65B31/04 B65D81/26 B65D85/00

CPC: B65D81/2069 B65B25/067 B65D77/003 B65D81/263

European: B65B25/06D1 B65D77/00B B65D81/20F B65D81/26D

US: 426/106 426/108 426/118 426/124 426/129 426/315 426/395 426/396 426/410 426/418 53/432 53/449



Family:

Publication number	Publication date	Application number	Application date
AU199672607 A1	19970507	AU19960072607	19961008
AU694951 B2	19980806	AU19960072607	19961008
CA2230007 AA	19980218	CA19962230007	19961008
CA2230007 C	20001205	CA19962230007	19961008
EP0855862 A1	19980805	EP19960934113	19961008
EP0855862 A4	20000126	EP19960934113	19961008
JP10512156 T2	19981124	JP19970515865T	19961008
JP3168211 B2	20010521	JP19970515865	19961008
NZ319956 A	19981028	NZ19960319956	19961008
US5667827 A	19970916	US19950543886	19951016
US5711978 A	19980127	US19960761783	19961206
WO9714313 A1	19970424	WO1996US16117	19961008

Priority:

US19950543886 19951016 WO1996US16117 19961008 US19960761783 19961206

Probable Assignee: TRANSHUMANCE HOLDING CO INC

Assignee(s): (std): SUPERIOR PACKING CO ; TRANSHUMANCE DBA SUPERIOR PACK ; TRANCEHUMANCE DOING BUSINESS A ; TRANSHUMANCE ; TRANSHUMANCE DOING BUSINESS AS ; TRANSHUMANCE DBA SUPERIOR PACKING COMPANY ; TRANSHUMANCE DOING BUSINESS AS SUPERIOR PACKING CO

Assignee(s): TRANSHUMANCE DOING BUSINESS SUPERIOR PACKING CO AS ; TRANSHUMANCE DOING BUSINESS AS SUPERIOR PACKING COMPANY ; WILSON LAWRENCE ; TRANCEHUMANCE DOING BUSINESS AS SUPERIOR PACKING COMPANY ; TRANSHUMANCE HOLDING CO INC ; BREEN DENNIS J ; JOHN HANCOCK LIFE INSURANCE CO ; TRANSHUMANCE DBA SUPERIOR PACKING CO ; TRANCEHUMANCE DOING BUSINESS AS SUPERIOR PACKING C

Inventor(s): (std): BREEN DENNIS J ; DENNIS J BREEN ; LAWRENCE WILSON ; WILSON LAWRENCE

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR

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

Title: METHOD OF PACKAGING FRESH MEAT PRODUCTS IN A LOW OXYGEN ENVIRONMENT, MEAT COLOR IMPROVEMENT SOLUTION AND PRE-PACKAGED FOOD PRODUCT

Abstract: A method of packaging a fresh meat product in a low oxygen environment is provided. The method comprises applying a natural plant component to a surface of the fresh meat product and sealing the fresh meat product in a package that contains a low oxygen environment. The natural plant component includes a sufficient amount of nitrites to convert myoglobin in the fresh meat product to nitrosomyoglobin and thereby improve the color of the fresh meat product. A meat color improvement solution and a pre-packaged food product are also provided.

Classifications:

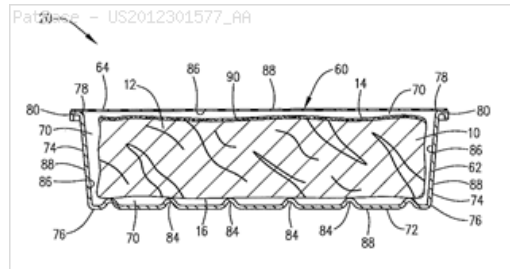
International (IPC 8-9): A23B4/16 A23B4/18 A23B4/26 A23L1/314

A23L1/315 A23L13/40 A23L13/50 (Advanced/Invention)

CPC: A23B4/20 A23B4/16

European: A23B4/16

US: 426/264 426/49 426/644 426/645 426/647 426/652



Family:

Publication number	Publication date	Application number	Application date
AU2010351039 AA	20111020	AU20100351039	20100416
AU2010351039 BB	20131114	AU20100351039	20100416
BR112012026125 A2	20150915	BR20121126125	20100416
CA2789379 AA	20111020	CA20102789379	20100416
EP2528448 A1	20121205	EP20100849980	20100416
MX2012008596 A1	20121130	MX2012008596	20100416
RU2012148701 A	20140527	RU20120148701	20100416
US2012301577 AA	20121129	US20100577871	20100416
WO11129838 A1	20111020	WO2010US31478	20100416

Priority:

US20100577871 20100416 WO2010US31478 20100416

Probable Assignee: TYSON FOODS INC

Assignee(s): (std): BAUBLITS ROBERT TY ; SAWYER JASON THOMAS ; TYSON FOODS INC

Inventor(s): (std): BAUBLITS ROBERT TY ; SAWYER JASON THOMAS

Inventor(s): JASON THOMAS SAWYER ; ROBERT TY BAUBLITS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; RIDOUT AND MAYBEE LLP; ROBERTS MARK PETER; DOUGHERTY CLIFFORD C III 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 RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: Open cell tray and method of foodstuff packaging

Abstract: A packaging system includes a packaging member adapted to support a foodstuff in use. The packaging member comprises a container or tray formed from an open celled material. The container or tray has an inside intended to contact the foodstuff in use and an outside.

Classifications:

International (IPC 8-9): B65D1/34 B65D81/20 (Advanced/Invention);

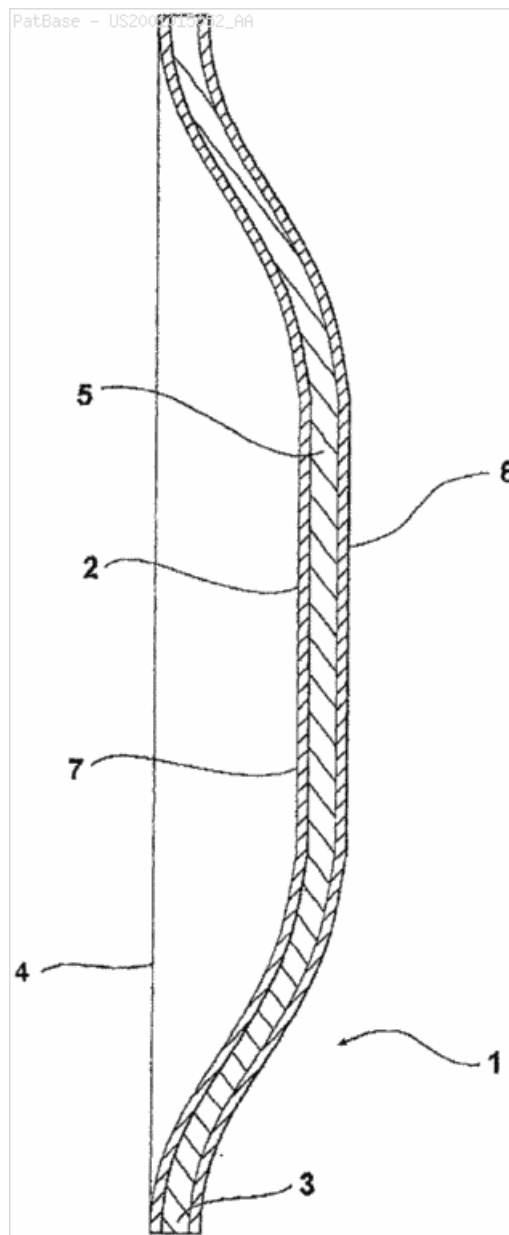
B65D1/34 B65D81/20 (Core/Invention)

International (IPC 1-7): B65B31/00 B65D81/28

CPC: B65D81/2092 B65D1/34 Y10T428/1376

European: B65D1/34 B65D81/20F2A

US: 206/204 206/204S 206/213.1 206/213.100P 426/129 426/129S 428/36.5 428/36.500S 53/434



Family:

Publication number	Publication date	Application number	Application date
US2001015052 AA	20010823	US20010769343	20010126
US2003116450 AA	20030626	US20020286904	20021104

Priority:

NZ20000502573 20000131 US20010769343 20010126 US20020286904 20021104

Probable Assignee:

HODDINOTT RICHARD GRANT

Assignee(s):

HODDINOTT RICHARD GRANT

Inventor(s): (std):

HODDINOTT RICHARD GRANT

Title: PRESERVATION OF INTERMEDIATE MOISTURE FOODS BY CONTROLLING HUMIDITY AND INHIBITION OF MOLD GROWTH

Abstract: A humidity control device for use in maintaining a desired humidity in packages of food, the device including a protective case, a water vapor permeable pouch and a thickened saturated solution, the solution having a suitable humidity control point for use within a food container. The device further employs a combination of an **oxygen** scavenger system to stop mold growth with anaerobic conditions and/or a mold inhibitor in the filling of the pouch or preferentially printed on the outside of the pouch.

Classifications:

International (IPC 8-9): A23L3/3418 A23L3/3436 B65D81/20 (Advanced/Invention);
A23L3/34 B65D81/20 (Core/Invention)

International (IPC 1-7): A22C5/00 A23G1/00 A23L A24F25/00 A61L9/04

CPC: A23L3/3418 A23L3/3436 B65D81/2076

European: A23L3/3418 A23L3/3436 B65D81/20F1

US: 239/53 239/55 252/188.28 34/446 34/474 426/133 502/406

Family:

Publication number	Publication date	Application number	Application date
 AU2003209003 AA	20030902	AU20030209003	20030204
 AU2003209003 AH	20030902	AU20030209003	20030204
 US2003203081 AA	20031030	US20020068783	20020205
 US6921026 BB	20050726	US20020068783	20020205
 US6921026 K1	20180207	US20020068783	20020205
 WO03065821 A2	20030814	WO2003US03501	20030204
 WO03065821 A3	20040610	WO2003US03501	20030204

Priority:

US20020068783 20020205 WO2003US03501 20030204

Probable Assignee: BOVEDA INC

Assignee(s): (std): ESSE ROBERT L ; HUMIDIPAK INC ; SAARI ALBERT L

Assignee(s): BOVEDA INC

Inventor(s): (std): ESSE ROBERT L ; SAARI ALBERT L

Inventor(s): ALBERT L SAARI ; ROBERT L ESSE

Agent(s): ANGENEHM LAW FIRM LTD; FRIEDERICH N PAUL; N PAUL

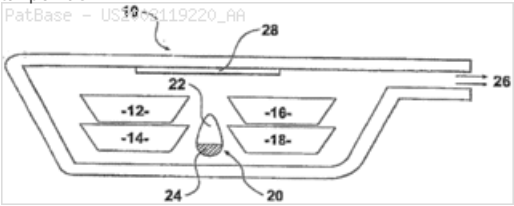
Designated states: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: REAGENT RELEASING APPARATUS AND METHOD

Abstract: A method of reducing the amount of oxygen from prepackaged food products including the steps of placing the packaged food products within an evacuation chamber associated with a sealed container containing an oxygen absorbing reagent, evacuating gas from the evacuation chamber wherein the pressure differential in the evacuation chamber causes the sealed container to rupture thereby releasing or activating the oxygen absorbing reagent to absorb oxygen in the chamber, hermetically sealing the evacuation chamber containing the packaged food products. The gas within the sealed container may be nitrogen. The oxygen absorbing reagent may be a metal halide coated metal powder.

Classifications:

International (IPC 8-9): A23B4/16 A23L3/3436 (Advanced/Invention);
A23B4/14 A23L3/34 (Core/Invention)
International (IPC 1-7): A23B4/00
CPC: A23B4/16 A23L3/3436
European: A23B4/16 A23L3/3436
US: 426/111



Family:

Publication number	Publication date	Application number	Application date
US2002119220 AA	20020829	US20020073997	20020214

Priority:

NZ20010509971 20010214

Probable Assignee:

SECUREFRESH PACIFIC LTD

Assignee(s): (std):

COSTELLO ANTHONY WILLIAM

Assignee(s):

SECUREFRESH PACIFIC LTD

Inventor(s): (std):

COSTELLO ANTHONY WILLIAM

Title: PLASTIC MULTI-LAYER VESSEL

Abstract: PCT No. PCT/JP89/00449 Sec. 371 Date Apr. 5, 1990 Sec. 102(e) Date Apr. 5, 1990 PCT Filed Apr. 27, 1989 PCT Pub. No. WO89/10261 PCT Pub. Date Nov. 2, 1989. In a plastic multi-layer vessel, by forming a layer of a resin composition formed by incorporating an **oxygen** scavenger, optionally with a water-absorbing agent, in a gas barrier resin, a combination layer comprising a layer of a gas barrier thermoplastic resin and a layer of a resin composition formed by incorporating an **oxygen** scavenger in a moisture-absorbing thermoplastic resin, or a combination layer comprising a layer of a resin composition formed by incorporating an **oxygen** scavenger into a gas barrier resin and a layer of a resin composition formed by incorporating an water-absorbing agent into a thermoplastic resin, the resistance against the permeation of oxygen under heat sterilization conditions and after the heat sterilization can be highly improved, and the quantity of oxygen in the vessel can be controlled to a very low level.

Classifications:

International (IPC 8-9): B32B1/02 B32B27/08 B32B27/18 B32B27/28 B32B27/34 B32B7/02 B65D65/00 (Advanced/Invention); B32B1/00 B32B27/08 B32B27/18 B32B27/28 B32B27/34 B32B7/02 B65D65/00 (Core/Invention)

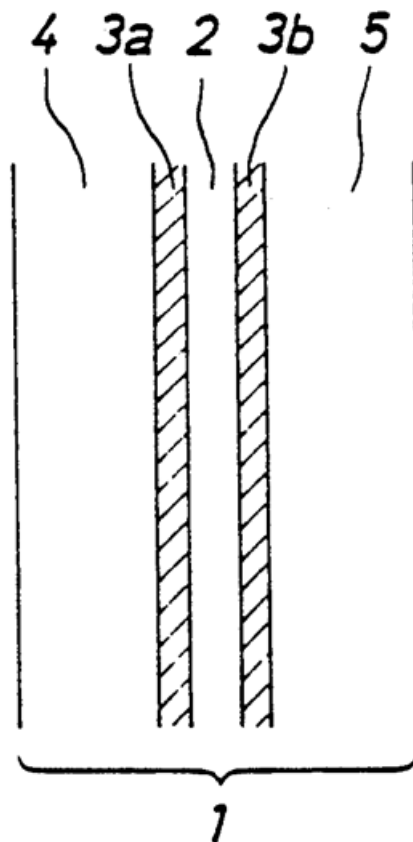
International (IPC 1-7): B32B1/02 B32B27/04 B32B27/08 B32B27/18 B32B27/28 B32B27/34 B32B7/02 B65D65/00 B65D65/40 B65D81/26

CPC: Y10S428/913 Y10T428/1355 Y10T428/1359 Y10T428/1379 Y10T428/1383 Y10T428/31928 Y10T428/31935 B32B27/08 B32B1/02 B32B2307/7242 B32B2439/00 B32B27/18

European: B32B27/18

US: 252/188.28 428/35.8 428/35.9 428/358 428/359 428/36.6 428/36.7 428/366 428/367 428/520 428/522 428/913

PatBase - US5153038_A



Family:

Publication number	Publication date	Application number	Application date
AU198935489 A1	19891124	AU19890035489	19890427
AU623398 B2	19920514	AU19890035489	19890427
DE68926902 D1	19960905	DE19896026902	19890427
DE68926902 T2	19961212	DE19896026902T	19890427
EP0367835 A1	19900516	EP19890905191	19890427
EP0367835 A4	19901010	EP19890905191	19890427
EP0367835 B1	19960731	EP19890905191	19890427
JP1278335 A2	19891108	JP19880105447	19880430
JP1278344 A2	19891108	JP19880105446	19880430
JP1839369 C3	19940425	JP19880105446	19880430
JP1839370 C3	19940425	JP19880105447	19880430
JP4060826 B4	19920929	JP19880105446	19880430
JP4060827 B4	19920929	JP19880105447	19880430
US5153038 A	19921006	US19900459813	19900405
WO8910261 A1	19891102	WO1989JP00449	19890427

Priority:

JP19880105446 19880430 JP19880105447 19880430 WO1989JP00449 19890427

Probable Assignee: TOYO SEIKAN KAISHA LTD

Assignee(s): (std): TOYO SEIKAN KAISHA LTD

Assignee(s): TOYO SEIKAN KAISHA LTD A CORP OF JAPAN ; TOYO SEIKAN KAISHA LTD TOKIO TOKYO JP

Inventor(s): (std): YAMADA MUNKEI ; ODA YASUHIRO ; KOYAMA MASAYASU

Inventor(s): KOYAMA MASAYASU ZUSHI SHI KANAGAWA KEN 249 JP ; MASAYASU KOYAMA ; MUNKEI YAMADA ; ODA YASUHIRO YOKOHAMA SHI KANAGAWA KEN 241 JP ; YAMADA MUNKEI KANAGAWA KEN 252 JP ; YASUHIRO

ODA

Agent(s): PHILLIPS ORMONDE FITZPATRICK

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

Title: POLYESTER COMPOSITION WITH ENHANCED GAS BARRIER, ARTICLES MADE THEREWITH, AND METHODS

Abstract: A polyester composition with enhanced gas barrier properties comprises a polyester and an organic gas barrier enhancing additive having the chemical formula OH-AR-OH, wherein AR is substituted or unsubstituted naphthalene. Articles with enhanced gas barrier and methods for making gas barrier enhanced polyesters and articles are disclosed.

Classifications:

International (IPC 8-9): B65D1/00 C08K5/053 (Advanced/Invention);

B65D1/00 C08K5/00 (Core/Invention)

International (IPC 1-7): B65D1/00

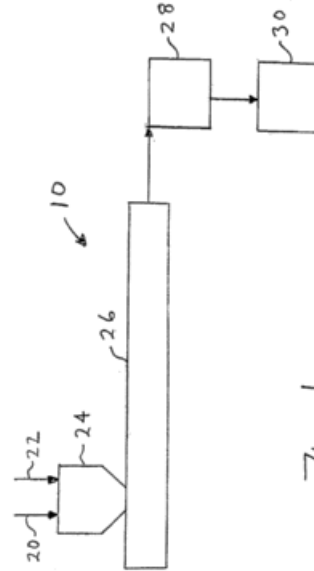
CPC: C08K5/053 Y10T428/1352 C08K2201/008

European: C08K5/053

US: 428/35.7 428/35.700P

PatBase - US2005221036_RR

Patent Application Publication Oct. 6, 2005 Sheet 1 of 3 US 2005/021836 A1



Family:

Publication number	Publication date	Application number	Application date
US2005221036 AA	20051006	US20050095053	20050331

Priority:

US20040558494P 20040401 US20050095053 20050331

Probable Assignee: COCA COLA CO

Assignee(s): (std): COCA COLA CO

Assignee(s): THE COCA COLA COMPANY

Inventor(s): (std): SHI YU

Agent(s): SUTHERLAND ASBILL AND BRENNAN LLP

Title: MULTILAYER BARRIER FILM FOR VSP PACKAGING, METHOD OF PACKAGING AND PACKAGES OBTAINED THEREWITH

Abstract: The present invention relates to packaging films, more specifically to packaging films useful in vacuum skin packaging applications characterized by a very good formability, high implosion and abuse resistance, excellent machinability, good optical and barrier properties, to a method of packaging by using said films and to packages obtained therewith. Said films comprise a) an outer sealing layer, b) an outer abuse layer, c) at least one inner bulk layer and d) a multilayer core comprising e) a barrier layer and f) at least one crystalline polyamide layer adhered to said barrier layer e).

Classifications:

International (IPC 8-9): B32B27/34 B65D75/30 (Advanced/Invention)

CPC: B32B27/34 B32B2439/70 B32B27/08 B32B27/304 B32B27/306 B32B27/32 B32B27/36 B32B2270/00 B32B2307/306 B32B2307/31 B32B2307/50 B32B2307/581 B32B2307/704 B32B2307/7242 B32B2307/7265 B32B2307/732 B32B2439/40 B32B2553/00

European: B32B27/34 L32B439/70

Family:

Publication number	Publication date	Application number	Application date
EP2386411 A1	20111116	EP20100161800	20100503
WO11138320 A1	20111110	WO2011EP57044	20110503

Priority:

EP20100161800 20100503

Probable Assignee: CRYOVAC INC

Assignee(s): (std): CRYOVAC INC ; FANFANI ANDREA

Inventor(s): (std): FANFANI ANDREA

Agent(s): FRAIRE CRISTINA

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

Title: PACKAGE COMPRISING ON-DEMAND COLLAPSIBLE SUPPORT MEMBER

Abstract: The presently disclosed subject matter relates to packaging for products (such as fresh red meat) that are enclosed between a support member and a film in such a manner that the film can be peelably removed from the support member. More specifically, the presently disclosed subject matter relates to packaging wherein the support member is collapsible to allow the product to contact the film at any desired time, such as the time of retail display.

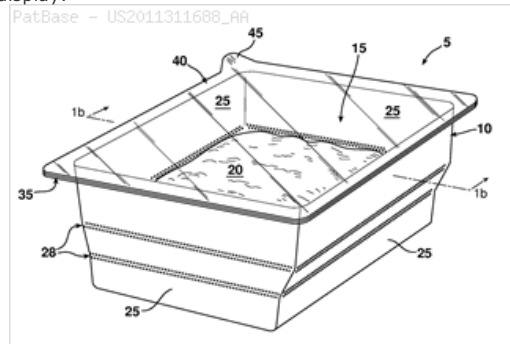
Classifications:

International (IPC 8-9): A23B4/00 B65B25/00 B65B7/00 B65D21/08 B65D77/00 B65D85/00 (Advanced/Invention)

CPC: B65D21/086 B65D77/003 B65D2205/025

European: B65D21/08C B65D77/00B L65D205/02A

US: 426/106 426/106S 426/111 426/111P 426/129 426/129S 426/413 426/413S



Family:

Publication number	Publication date	Application number	Application date
EP2585380 A1	20130501	EP20110728496	20110621
US2011311688 AA	20111222	US20100820513	20100622
WO11163165 A1	20111229	WO2011US41159	20110621

Priority:

US20100820513 20100622 WO2011US41159 20110621

Probable Assignee: CRYOVAC INC

Assignee(s): (std): BECRAFT MICHAEL L ; COATES BLAKE E ; CRYOVAC INC ; HUNTER AMY T ; MOORE DONALD KEITH JR ; OWENSBY JOSEPH E ; MOORE JR DONALD KEITH

Inventor(s): (std): BECRAFT MICHAEL L ; COATES BLAKE E ; HUNTER AMY T ; MOORE DONALD KEITH JR ; MOORE JR DONALD KEITH ; OWENSBY JOSEPH E

Agent(s): UEXKUELL AND STOLBERG; WILSON ASHLEY D 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 RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ACTIVE PACKAGING TECHNOLOGY

Abstract: The invention provides active packaging for food, medicine, or other perishable items. The packaging includes at least one active component to capture moisture and/or gas that may otherwise pass through the packaging wall

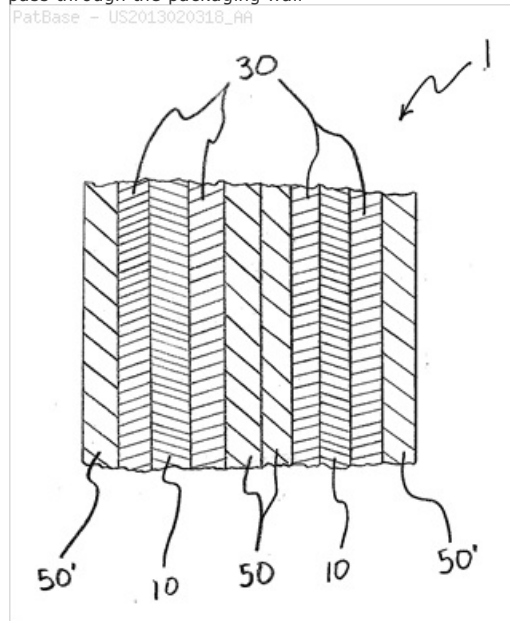
Classifications:

International (IPC 8-9): B23P17/00 B29C69/00 B32B7/00 B65D81/24 (Advanced/Invention)

CPC: B32B7/12 B32B27/08 B32B27/306 B32B27/32 B32B2250/05 B32B2250/24 B32B2250/40 B32B2264/10 B32B2307/7244

B32B2307/7246 B32B2439/70 B32B2439/80 B29C47/0021 B29C47/065 B65D81/267 Y10T29/49 Y10T29/49826

US: 220/62.11 220/62.13 29/428 29/592



Family:

Publication number	Publication date	Application number	Application date
US2013020318 AA	20130124	US20120357874	20120125

Priority:

US20110440062P 20110207 US20120357874 20120125

Probable Assignee: NORDSON CORP

Assignee(s): (std): EXTRUSION DIES IND LLC ; OLIVER GARY D

Assignee(s): EXTRUSION DIES INDUSTRIES LLC ; NORDSON CORP ; NORDSON EXTRUSION DIES IND LLC

Inventor(s): (std): OLIVER GARY D

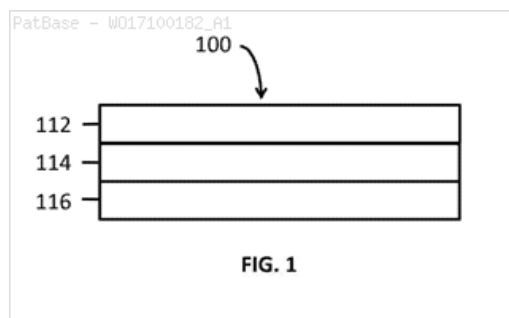
Title: **OXYGEN** SCAVENGING FILMS, PACKAGES, AND RELATED METHODS

Abstract: Disclosed herein films and packages formed therefrom for packaging oxygen-sensitive products. The films include a product contact layer comprising COC and catalyst. Introduction of a gas flush including hydrogen gas to a package made from said films helps provide for the catalytic combination of molecular hydrogen and molecular oxygen to remove oxygen from a headspace of the package.

Classifications:

International (IPC 8-9): A61K47/02 A61K47/30 B65D65/40 B65D85/00 (Advanced/Invention)

CPC: B65D85/00 B32B27/18 B65D81/267 B65D65/40



Family:

Publication number	Publication date	Application number	Application date
WO17100182 A1	20170615	WO2016US65127	20161206

Priority:

US20150264105P 20151207

Probable Assignee: BEMIS CO INC

Assignee(s): (std): BEMIS CO INC

Inventor(s): (std): LIU YUAN ; MCGINNIS JEROME E

Agent(s): CONNERS SHEENA E

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