

1) Family number: 48462021 (US2012171453A)

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Title: BARRIER COATED THERMO-MECHANICALLY STABLE, HEAT SEALABLE FILM, A PACKAGING LAMINATE COMPRISING THE FILM, A PACKAGING CONTAINER FORMED FROM THE PACKAGING LAMINATE AND A METHOD FOR THE PRODUCTION OF THE FILM

Abstract: The invention relates to a thermo-mechanically stable, heat sealable vapour deposition barrier-coated polymer film, substantially comprising polymers based on polyethylene. The invention especially relates to such a metallised polymer film. The invention also relates to a packaging laminate comprising the vapour deposition coated polymer film and to a packaging container produced from such a packaging laminate. The invention further relates to a method for the production of the coated, stable, heat sealable polymer film and to the method of manufacturing a packaging laminate including the heat sealable film.

Classifications:

International (IPC 8-9): B29C47/06 B32B15/082 B32B15/085 B32B17/08 B32B27/10 B32B27/32 B32B3/00 B32B9/00 B65D30/02 B65D5/62 B65D65/40 B65D85/72 C23C14/02 C23C14/20 C23C16/00 C23C16/06 (Advanced/Invention); B29C47/06 B32B15/082 B65D85/72 C23C14/02 C23C14/20 (Core/Non-invention)

International (IPC 1-7): B32B27/10 B32B27/32

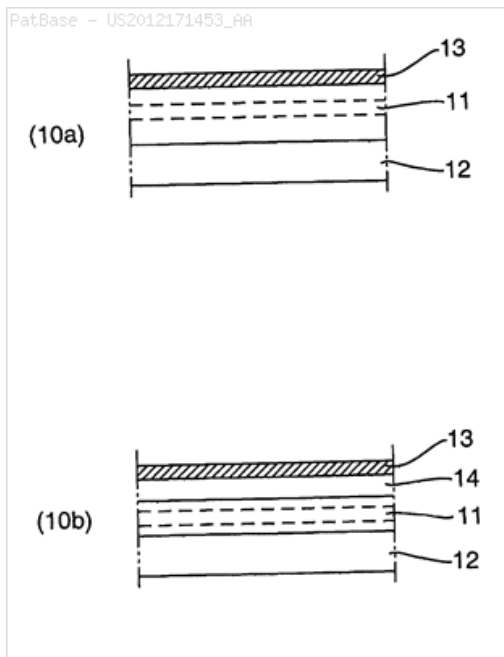
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European: B32B27/08 B32B27/10 B32B27/32 B32B27/32A B32B29/00

US: 427/248.1 427/248.100S 427/250 427/250S 428/220 428/220P

JP F-Term: 3E060 3E060/AB04 3E060/CD13 3E060/DA11 3E064 3E064/AA13 3E064/AB03 3E064/BA01 3E064/BA21 3E064/BB03 3E086 3E086/AA01 3E086/AB02 3E086/AD01 3E086/AD08 3E086/BA04 3E086/BA13 3E086/BA15 3E086/BA24 3E086/BB02 3E086/BB05 3E086/BB51 3E086/CA11 3E086/DA08 4F100 4F100/AA17/B 4F100/AA17/C 4F100/AB10/B 4F100/AB10/C 4F100/AK04/A 4F100/AK04/C 4F100/AK04/D 4F100/AK04/E 4F100/AK05/A 4F100/AK06/B 4F100/AK63/B 4F100/BA03 4F100/BA04 4F100/BA05 4F100/BA07 4F100/DG10/E 4F100/EH46 4F100/EH66/B 4F100/GB15 4F100/JD01 4F100/YY00/A 4F100/YY00/B 4F100/YY00/C

JP F-Index: B32B15/08/103/A B32B15/085/A B32B27/32/E B32B27/32/Z B32B9/00/A B65D30/02 B65D5/62/B B65D65/40/D



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Publication number	Publication date	Application number	Application date
AR078284 AA	20111026	AR2010P103327	20100910
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EP2475520 B1	20181024	EP20100754868	20100909
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WO11029597 A1	20110317	WO2010EP05539	20100909

Priority:

SE20090001176 20090911 WO2010EP05539 20100909

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE SA

Assignee(s): (std): BONNEBAULT ALAIN ; BUERKI MONIKA ; LORENZETTI CESARE ; ROCHAT GIL ; TETRA LAVAL HOLDINGS AND FINANCE ; TETRA LAVAL HOLDINGS AND FINANCE S A ; TETRA PAK LAVAL HOLDINGS AND FINANCES SA

Assignee(s): TETRA LAVAL KHOLDINGZ EHND FAJNEHNS SA ; TETRA LAVAL HOLDINGS AND FINANCE SA ; N A

Inventor(s): (std): BJURKI MONIKA ; BONNEBO ALEN ; ROSHA ZHIL ; LORENTSETTI CHEZARE ; BURKI MONIKA ; ALAIN BONNEBAULT ; GIL ROCHAT ; MONIKA BUERKI ; CESARE LORENZETTI ; BUERKI MONIKA ; ROCHAT GIL ; BONNEBAULT ALAIN ; LORENZETTI CESARE

Inventor(s): BRKI MONIKA

Agent(s): TETRA PAK PATENT ATTORNEYS SE; ASAMURA PATENT OFFICE PC; ASAMURA KIYOSHI; ASAMURA HAJIME; MORI TOHRU; PERSSON EVA

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

2) Family number: 34165037 (US2008206417A)

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Title: SEALABLE LAMINATE FOR RECLOSABLE PACKAGING**Abstract:** A multilayer laminate is composed of a) a backing, b) a pressure-sensitive adhesive layer applied directly to the backing, and c) a wax layer applied directly to the pressure-sensitive adhesive layer.**Classifications:****International (IPC 8-9):** B05D5/10 B29C65/52 B32B15/08 B32B27/00 B32B27/06 B32B27/32 B32B27/36 B32B7/12 B32B9/00 B65D33/16 B65D43/00 B65D65/40 B65D77/12 B65D77/20 B65D81/133 C09J7/02 (Advanced/Invention); B05D5/10 B29C65/52 B32B15/08 B32B27/00 B32B27/06 B32B27/32 B32B27/36 B32B7/12 B32B9/00 B65D33/16 B65D43/00 B65D65/40 B65D77/00 B65D77/10 B65D81/05 C09J7/00 C09J7/02 (Core/Invention)**CPC:** Y10T428/31786 Y10T428/31801 C09J7/22 C09J7/38**European:** C09J7/02K4**US:** 156/304.2 383/42 426/392 426/394 427/207.1 428/480 428/484.1**JP F-Term:** 3E086 3E086/AB01 3E086/AB02 3E086/AC06 3E086/AD05 3E086/BB52 3E086/DA08 4F100 4F100/AB01/A 4F100/AJ11/C 4F100/AK01/A 4F100/AK01/B 4F100/AK03/A 4F100/AK03/C 4F100/AK04/C 4F100/AK25/B 4F100/AK41/A 4F100/AK42 4F100/AK70 4F100/AT00/A 4F100/BA03 4F100/BA07 4F100/BA10/A 4F100/BA10/C 4F100/CB00/B 4F100/GB16 4F100/GB23 4F100/JL00 4F100/JL11/B 4F100/JL14 4F100/JM01/B 4F100/JN01/A 4F100/YY00/B 4F100/YY00/C**JP F-Index:** B32B27/00/H B65D65/40/A B65D65/40/D**Family:**

Publication number	Publication date	Application number	Application date
AT483776 E	20101015	AT20060777913T	20060721
CN101228244 A	20080723	CN200680026947	20060721
CN101228244 B	20120523	CN200680026947	20060721
DE102005035979 A1	20070201	DE200510035979	20050728
DE112006001483 A5	20080619	DE200611001483T	20060721
DE502006008034 D1	20101118	DE200650008034T	20060721
EP1913109 A1	20080423	EP20060777913	20060721
EP1913109 B1	20101006	EP20060777913	20060721
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JP2009502564 T2	20090129	JP20080523340T	20060721
JP4934135 B2	20120516	JP20080523340T	20060721
US2008206417 AA	20080828	US20060995877	20060721
WO07012621 A1	20070201	WO2006EP64552	20060721

Priority:

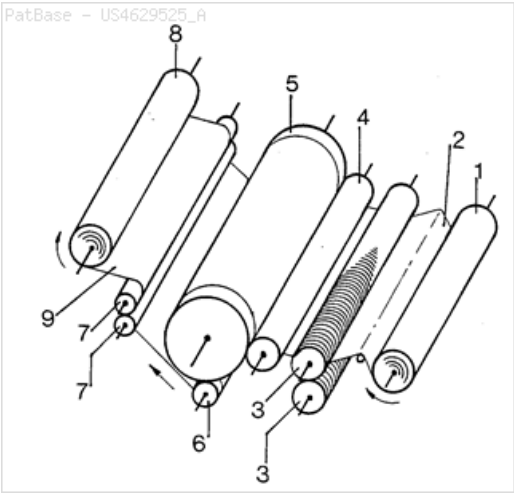
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Probable Assignee: BASF SE**Assignee(s):** (std): BASF CORP ; BASF SE ; BEYERS CORNELIS PETRUS ; KIRSCH STEFAN ; HOLZENKAMP UTA ; DRAGON ANDREE ; BASF AG**Assignee(s):** BASF AKTIENGESELLSCHAFT**Inventor(s):** (std): BEYERS CORNELIS PETRUS ; DRAGON ANDREE ; HOLZENKAMP UTA ; KIRSCH STEFAN ; UTA HOLZENKAMP ; STEFAN KIRSCH ; PETRUS BEYERS CORNELIS ; ANDREE DRAGON ; BEYERS CORNELIS**Agent(s):** OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**3) Family number: 13274073** (US4629525A)

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Title: METHOD AND APPARATUS FOR PREPARING A HIGH STRENGTH SHEET MATERIAL**Abstract:** PCT No. PCT/DK83/00038 Sec. 371 Date Nov. 18, 1983 Sec. 102(e) Date Nov. 18, 1983 PCT Filed Mar. 25, 1983 PCT Pub. No. WO83/03381 PCT Pub. Date Oct. 13, 1983.A method of preparing a high strength sheet material comprising (a) forming a laminate comprising at least two layers of a thermoplastic polymer material, each layer having a fibrillar grain structure providing a predominant direction of splittability in each said layer, and wherein the layers are bonded to one another with the said predominant directions of splittability generally transverse to each other, (b) biaxially orienting the molecules of said layers by stretching the layers in substantially uniaxial steps, at least the transverse stretching step thereof being effected by applying pressure to the surface of the laminate along lines extending substantially in the longitudinal direction of the laminate to impart thereto a transversely waved or sinuous configuration, and (c) subjecting the biaxially oriented laminate while in the sinuous condition to a heat treatment while allowing at least 7 percent shrinkage of the laminate to take place in at least its transverse direction. The sinuously configured laminate is preferably brought into contact with a heated body having a surface that is flat in a transverse direction so that the crests on the sides of the sinuous configuration adjacent said body are heated more rapidly than the remainder of the laminate.**Classifications:****International (IPC 8-9):** B29C47/02 B29C49/04 B29C55/02 B29C55/06 B29C55/08 B29C55/12 B29C55/14 B29C55/18 B29C71/00 B29C71/02 B29D7/00 B29D7/01 B32B27/02 B32B27/08 B32B27/32 B32B43/00 B32B5/12 B32B5/14 C08J5/18 (Advanced/Invention); B29C49/04 B29C55/02 B29C55/12 B29C55/14 B29C55/18 B29C71/00 B29C71/02 B29D7/00 B29K23/00 B29L7/00 B29L9/00 B32B27/08 B32B27/32 B32B43/00 B32B5/14 (Advanced/Non-invention); B29C49/04 B29C55/02 B29C55/04 B29C55/12 B29C55/14 B29C55/18 B29C71/02 B29D7/00 B32B27/02 B32B27/08 B32B27/32 B32B43/00 B32B5/12 B32B5/14 C08J5/18 (Core/Invention); B29C71/00 (Core/Non-invention); B29C B29D B32B (Subclass/Invention)

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B32B43/00 B32B5/14



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Probable Assignee: BEMIS CO INC

Assignee(s): (std): BAXTER TRAVENOL LAB ; BAXTER INT ; KIM YONG J ; GENSKE ROGER P ; NAT CAN CORP ; BAUER FRANK T ; AMERICAN NATIONAL CAN CO ; AMERICAN NAT CAN CO ; AMERICAN NATIONAL CA CO ; BAXTER INT INC A DELAWARE CORPORATION ; AMERICAN CAN PACKAGING INC

Assignee(s): AMERICAN CAN PACKAGING INC BAXTER TRAVENOL LABORAT ; PECHINEY PLASTIC PACKAGINC INC ; PECHINEY PLASTIC PACKAGING INC ; PECHINEY EMBALLAGE FLEXIBLE EUROPE ; WEBSTER R DANIEL ; AMERICAN CAN CO ; AMERICAN CAN CO A CORP OF NJ ; AMERICAN CAN CO AMERICAN LANE GREENWICH CT 06830 A ; AMERICAN CAN CO AMERICAN LANE GREENWICH CT 06830 A CORP OF NJ ; AMERICAN NATL CAN CO ; BAKUSUTAA INTERN INC ; AMERIKAN NASHONARU KYAN CO ; AMERICAN CAN PACKAGING INC GREENWICH CONN US ; AMERICAN NATIONAL CAN CO A CORP OF DE ; AMERICAN NATIONAL CAN CO A DE CORP ; AMERICAN NATIONAL CAN CO CHICAGO ILL US ; AMERICAN CAN PACKAGING INC BAXTER TRAVENOL LABORATORIES ; BAXTER TRAVENOL LABORATORIES INC ; ELF ATOCHEM SA ; NATL CAN CORP ; BAXTER INT INC A DELAWARE CORP ; BAXTER INTERNATL INC ; BAXTER TRAVENOL LABORATORIES INC DEERFIELD ILL US ; INC ; BAXTER TRAVENOL LAB INC ; BAXTER INT INCORPORATED ; BEMIS CO INC ; BAXTER INT INC DEERFIELD ILLINOIS A DE CORP ; BAXTER INT INC ; GENSKE ROGER PETER ; GEHRKE RUSSELL PAUL ; KIM YONG JOO ; JOHNSON RICHARD EUGENE JR ; CZUBA LEONARD F ; BAUER FRANK TEMPLETON

Inventor(s): (std): AARU DANIERU UEBUSUTAA ; BAUER FRANK ; BUBEL ROY A ; JOHNSON RICHARD EUGENE ; JOHNSON RICHARD EUGENE JR ; FURANKU TENPURUTON BAUA ; KIMM YONG JOO ; RATSUSERU POORU JIEERUKE ; RATSUSERU POORU JIYAANKU ; REONAADO EFU KUZUBA ; YON JIYOO KIMU ; WEBSTER R DANIEL ; ROJIYAA PIITAA JIENSUKU ; RICHYAADO YUUIIN JIYONSON JI ; KIM YONG JOO ; JOHSON RICHARD EUGENE JR ; JOHNSON RUSSELL EUGENE JR ; JOHNSON JR RICHARD E ; GENSKE ROGER PETER ; CZUBA LEONARD F ; BAUER FRANK TEMPLETON ; BAUER FRANK T ; KIM YONG J ; JOHNSON RICHARD E JR ; GENSKE ROGER P ; GEHRKE RUSSELL P ; GEHRKE RUSSELL PAUL

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; MARKS AND CLERK

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

5) Family number: 42181152 (US2008233424A)

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

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

Classifications:

International (IPC 8-9): B32B15/04 B32B15/08 B32B15/085 B32B15/20 B32B7/06 B32B7/12 B65D43/00 B65D43/02 B65D51/18 B65D51/20 B65D55/06 B65D55/08 B65D77/20 G03H1/00 G03H1/02 G09F3/03 (Advanced/Invention); B32B15/08 B32B7/12 B65D55/02 G09F3/03 (Core/Invention)

CPC: B32B7/06 B32B15/08 B65D43/0235 Y10T428/12535

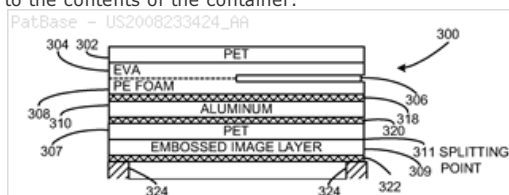
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European: B32B15/08 B32B7/06 B32B7/12 G09F3/03A5

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

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20140936218P 20140205 US20140253901 20140416 US20150107560 20150204
WO2015US14363 20150204

Probable Assignee: SELIG SEALING PRODUCTS INC

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

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

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

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

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

6) Family number: 43219157 (US2010296757A)

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Title: MULTILAYERED LAMINATE FILM

Abstract: There is provided a multilayer laminate film with easy unsealability, heat resistance and easy cuttability, having a seal layer (A) and a base material layer (B), the multilayer laminate film containing the seal layer (A) and the base material layer (B) composed of a mixture of 10-50 parts by weight of high-density polyethylene and 50-90 parts by weight of polypropylene, laminated on the seal layer (A) in one layer or two or more layers, wherein the base material layer (B) is composed of one member selected from the group consisting of (a) an ethylene/butene copolymer with density of 0.93 grams per cubic centimetre-0.94 grams per cubic centimetre, polymerized using multisite catalyst, (b) high-density polyethylene with a density of 0.945 grams per cubic centimetre-0.965 grams per cubic centimetre and (c) an ethylene/propylene block or random copolymer, further wherein the layer thickness of the seal layer (A) is 1 micro m-20 micro m while the layer thickness of the base material layer (B) is 20 micro m-100 micro m, as well as a packaging container and packaging bag employing it as a lid material.

Classifications:

International (IPC 8-9): B29D23/00 B32B27/32 B32B7/02
B65D30/02 B65D30/08 B65D33/00 B65D33/24 B65D43/00
B65D53/00 B65D53/04 B65D65/40 B65D75/60
B65D77/12 (Advanced/Invention);
B32B27/32 B65D30/02 B65D30/08 B65D33/00 B65D33/16
B65D53/00 B65D65/40 B65D75/52 B65D77/10 (Core/Invention)

International (IPC 1-7): B32B27/32 B65D30/08

CPC: Y10T428/1352 Y10T428/1393 Y10T428/24975 B32B15/08

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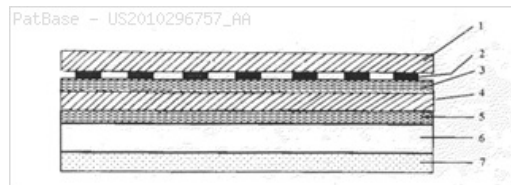
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Priority:

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Probable Assignee: DAINIPPON PRINTING CO LTD**Assignee(s):** (std): DAINIPPON PRINTING CO LTD ; MATSUI SHIGEKI ; MITA KOZO ; OOSONE SATOSHI ; WATANABE KAORU ; YUNO MASATO ; MITA KOZO SATOSHI ; AKITA NORIO**Assignee(s):** DAI NIPPON PRINTING CO ; DAI NIPPON PRINTING CO LTD**Inventor(s):** (std): AKITA NORIO ; MATSUI SHIGEKI ; MITA KOZO ; MITA KOZO SATOSHI ; OOSONE SATOSHI ; WATANABE KAORU ; YUNO MASATO ; OSONE SATOSHI**Inventor(s):** SHIGEKI MATSUI ; SATOSHI OOSONE ; NORIO AKITA ; MASATO YUNO ; KOZO MITA ; KAORU WATANABE**Agent(s):** FB RICE; FB RICE PTY LTD; WENDEROTH LIND AND PONACK LLP; YUITA JUNJI ET AL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**7) Family number: 15971173** (US2004018795A)

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Title: SPUNBONDED HEAT SEAL MATERIAL

Abstract: Disclosed is a nonwoven web material (10) comprising thermoplastic fibers or filaments and a method of manufacture thereof. The web material has properties desirable for use on machinery having conventional heat sealing stations (26). Also, disclosed is a nonwoven infusion web material comprising thermoplastic fibers or filaments and a method of manufacture thereof. The infusion web material has properties desirable for use in making infusion packages.

Classifications:

International (IPC 8-9): B29C47/00 B32B37/00 B32B37/10 B32B37/12 B32B37/15 B32B38/00 B32B5/06 B32B5/26 B32B7/10 B65B29/02 B65D65/02 B65D77/00 B65D81/00 D04H1/00 D04H1/559 D04H1/587 D04H13/00 D04H3/00 D04H3/033 D04H3/10 D04H3/12 D04H3/14 D04H3/147 D04H3/153 D04H3/16 D04H5/00 D21H27/08 (Advanced/Invention)

International (IPC 1-7): B32B5/06 B32B5/26 B32B7/10 B65B29/02 B65D65/02 B65D81/00 D04H1/00 D04H13/00 D04H3/00 D04H3/16 D04H5/00 D21H27/08

CPC: Y10T428/24273 Y10T428/24281 Y10T428/24289 Y10T428/24298 Y10T428/24306 Y10T428/24314 Y10T428/24322 Y10T428/24331 Y10T428/24339 Y10T428/24347 B32B5/26 B32B7/02 B32B37/153 B32B2305/20 B32B2307/21 B32B2439/06 Y10T442/20 Y10T442/637 Y10T442/659 Y10T442/66 Y10T442/668 Y10T442/68 Y10T442/681 Y10T442/692 D04H1/559 D04H3/14

European: B32B5/26 B32B7/02 D04H13/00B2 D04H13/00B5 D04H3/10B L32B305/20 L32B307/210 L32B37/15B L32B439/06
US: 156/181 156/244.11 156/244.110S 156/244.27 156/244.270P 428/131 428/132 428/133 428/134 428/135 428/136 428/137 428/138 428/139 428/140 442/361 442/361S 442/381 442/381S 442/382 442/382S 442/389 442/400 442/401 442/401P 442/411 442/59

JP F-Term: 3E035 3E067 3E067/BA12 3E067/BB06 3E067/BB25 3E067/CA24 3E067/EA06 3E067/FA01 3E067/FB17 3E067/FC01 3E067/GD07 3E086 3E086/AB02 3E086/AC07 3E086/AD01 3E086/BA02 3E086/BA19 3E086/BA33 3E086/BA42 3E086/BB44 3E086/BB52 3E086/CA11 3E090 4L047 4L047/AA27 4L047/AB03 4L047/AB10 4L047/BA08 4L047/BA23 4L047/BB00 4L047/CA02 4L047/CA05 4L047/CA19 4L047/CB10 4L047/CC12 4L047/CC16 3E067/AA11 3E067/AB23 3E067/AB24 3E067/AB99 3E067/AC01 3E067/BB15 3E067/BB16 3E067/CA08 3E067/CA21 3E067/GB03 4L047/AA14 4L047/AA21 4L047/AB08 4L047/BA12 4L047/CB01 4L047/DA00

JP F-Index: B65B29/02 B65D65/02/E B65D77/00/F B65D85/808 D04H3/03/A D04H3/033 D04H3/14/A D04H3/147 D04H3/16 D04H1/54/Q D04H1/559 D04H1/58/A D04H1/587 D04H3/12

PatBase - US2004018795_A1

Patent Application Publication Jan. 29, 2004 Sheet 1 of 2 US 2004/0018795 A1

**Family:**

Publication number	Publication date	Application number	Application date
AU2001275521 AA	20011224	AU20010275521	20010612
AU2001275521 BB	20060302	AU20010275521	20010612
AU200175521 A1	20011224	AU20010075521	20010612
AU200175521 A5	20011224	AU20010075521	20010612
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CN1447868 A	20031008	CN20018012365	20010612
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EP1294969 A4	20041208	EP20010942245	20010612
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JP5005150 B2	20120822	JP20020510747T	20010612
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US2004018795 AA	20040129	US20030297573	20030807
US2011226411 AA	20110922	US20110072985	20110328
US7935646 BB	20110503	US20010297573	20010612
US8216411 BB	20120710	US20110072985	20110328
WO0196639 A1	20011220	WO2001US40919	20010612

Priority:

US20000210978P 20000612 EP20010942245 20010612 JP20020510747 20010612

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Inventor(s): (std): HELEN VIAZMENSKY ; JOHN M ALLEN ; RICHARD T GIOVANNONI ; VIAZMENSKY HELEN ; GIOVANNONI RICHARD T ; ALLEN JOHN M ; HELLEN BIASMENSKI ; GIOVANNONI HELEN VIAZMENSKY JO

Inventor(s): HELEN VIAZMENSKY JOHN M ALLEN RICHARD T GIOVANNONI

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; KIRSCH SUSAN EDITH; ALIX YALE AND RISTAS LLP

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

8) Family number: 15807185 (US2004071905A)

© PatBase

Title: HEAT SEALING POLYOLEFINS

Abstract: A method of sealing together polyolefine elements, the method comprising providing a first element including a polyolefin selected from at least one of polyethylene and isotactic polpropylene and a second element including a polyolefin selected from at least one of polyethylene and isotactic polpropylene, at least one of the first and second elements further including from 5 to 99 wt percent syndiotactic polpropylene, and heat sealing the first and second elements together.

Classifications:

International (ipc 8-9): A61J1/05 A61J1/10 B32B27/32 B32B37/16 B65D30/22 B65D65/40 B65D81/32 C08J5/12 (Advanced/Invention); A61J1/05 A61J1/10 B32B27/32 B32B37/14 B65D30/22 B65D65/40 B65D81/32 C08J5/12 (Core/Invention)

International (ipc 1-7): A61J1/05 A61J1/10 B32B27/08 B32B27/32 B32B31/04 B65D30/22 B65D65/40 C08J5/12 C08L23/02
CPC: Y10T428/1352 C08J5/121 B32B27/32 B65D81/3261 C08J2323/02 Y10T428/31913

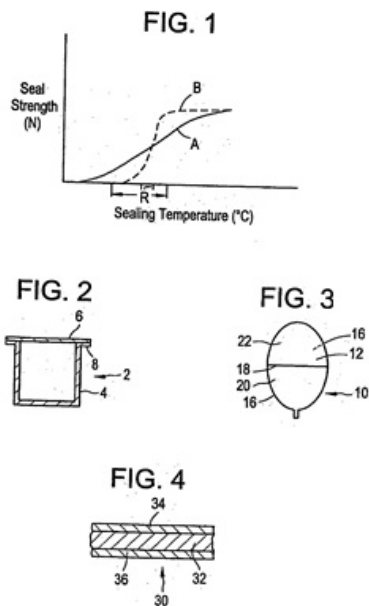
European: B32B27/32 B65D81/32H C08J5/12D M08J323/02
US: 156/308.4 156/308.400S 428/35.7 428/35.700P 428/516 428/516S

JP F-Term: 3E064 3E064/AA01 3E064/AD02 3E064/BA26 3E064/BA30 3E064/BB03 3E064/BC18 3E064/EA04 3E064/EA30 3E064/FA04 3E064/HN05 3E064/HT07 3E086 3E086/AB01 3E086/AC07 3E086/AD01 3E086/AD24 3E086/BA04 3E086/BA15 3E086/BB51 3E086/CA27 4C047 4C047/AA11 4C047/AA13 4C047/BB12 4C047/BB13 4C047/BB14 4C047/BB15 4C047/BB16 4C047/BB17 4C047/BB25 4C047/BB28 4C047/BB35 4C047/CC04 4C047/CC05 4C047/CC07 4C047/CC27 4C047/FF01 4C047/FF02 4C047/FF03 4C047/FF06 4C047/FF07 4C047/FF08 4F100 4F100/AK04 4F100/AK07 4F100/AL05 4F100/BA02 4F100/BA07 4F100/BA16 4F100/EC03 4F100/GB16 4F100/YY00

JP F-Index: A61J1/00/311 A61J1/00/331/A A61J1/00/331/C A61J1/00/351/A A61J1/05/311 A61J1/05/351/A A61J1/10/331/A A61J1/10/331/C B32B27/32/E B32B31/04 B32B37/16 B65D30/22/F B65D30/22/G B65D65/40/D

PatBase - US2004071905_AH

Patent Application Publication Apr. 15, 2004 Sheet 1 of 3 US 2004/0071905 A1



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Publication number	Publication date	Application number	Application date
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US2004071905 AA	20040415	US20030332071	20031014
WO0202322 A1	20020110	WO2001EP07311	20010627

Priority:

EP20000202334 20000704 EP20010956505 20010627 WO2001EP07311 20010627

Probable Assignee: TOTAL PETROCHEMICALS RESEARCH FELUY

Assignee(s): (std): ATOFINA RES ; ATOFINA RES S A ; ATOFINA RES SA ; DEMAINE AXEL ; TOTAL PETROCHEMICALS RES FELUY

Assignee(s): TOTAL PETROCHEMICALS RESEARCH FELUY SENEFFE ; TOTAL PETROCHEMICALS RESEARCH FELUY ; ATOFINA RESEARCH ; ATOFINA RESEARCH S A ; ATOFINA RESEARCH SA

Inventor(s): (std): DEMAINE AXEL

Inventor(s): AXEL DEMAINE

Agent(s): LEYDER FRANCIS; HIROSHI KOSHIBA

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 CO CR CU CY CZ DE DK DM DZ EC 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 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 US UZ VN YU ZA ZW

Title: GRAFTED CYCLODEXTRIN

Abstract: Thermoplastic polymer compositions, films, continues, closures, laminates can comprise a modified vinyl polymer said modified polymer having a moiety comprising a cyclodextrin compound. The cyclodextrin compound, locked into the polymer structure, can absorb impurities, permeants, or other undesirable volatile materials. The cooperation between the cyclodextrin grafted onto the thermoplastic polymer and the polymer structure can provide barrier properties to a film, web or other polymer structure. A permeant or a contaminant can be complexed or trapped within the polymer and held within the film or Web preventing the permeant or contaminant from passing into the interior of a container or enclosure.

Classifications:

International (IPC 8-9): B28B3/20 B29B9/12 B32B1/08 B32B27/10 B32B27/32 B65D39/18 B65D53/06 B65D65/02 B65D65/38 B65D75/28 C08B C08B31/00 C08B37/00 C08B37/16 C08F C08F16/06 C08F267/04 C08F299/00 C08G61/00 C08G63/91 C08J C08J3/20 C08J5/00 C08J5/18 C08K5/20 C08L C08L23/00 C08L23/02 C08L23/04 C08L23/06 C08L23/16 C08L23/26 C08L29/00 C08L5/16 C08L51/00 C08L67/02 C32B28/08 D02G3/02 F16L11/04 (Advanced/Invention); B29K23/00 C08B37/16 C08L51/06 (Advanced/Non-invention); B32B27/32 C08B37/00 C08L29/00 (Core/Invention); C08L (Subclass/Invention); C08B C08F C08J (Subclass/Non-invention)

International (IPC 1-7): B29B9/12 B29K23/00 B65D1/00 B65D65/38 B65D75/28 C08B37/16 C08F299/00 C08J3/20 C08J5/00 C08J5/18 C08K5/20 C08L23/02 C08L23/04 C08L23/26 C08L5/16 C08L51/00 C08L51/02 C08L67/02

CPC: B32B5/02 B32B15/08 B32B15/085 B32B27/08 B32B27/10 B32B27/12 B32B27/302 B32B2262/0253 B32B2262/12 B32B2307/31 B32B2439/40 B32B2439/70 B32B2555/02 Y10T428/13 Y10T428/1352 Y10T428/1397 Y10T428/269 Y10T428/2878 C08F8/14 C08F8/46 C08G81/02 C08G81/024 C08L87/005 Y10T428/1393 Y10T428/2929 Y10T428/298 Y10T428/12431 B32B27/02 B32B27/28 B32B27/32 C08L5/16 C08L23/04 C08L51/06 Y10T428/24998 Y10T428/31895 Y10T428/31902 Y10T442/608 Y10T442/626 Y10T442/681 Y10T428/249926 C08B37/0012

European: B32B27/02 B32B27/28 B32B27/32 C08B37/00M2B C08F8/14 C08F8/46 C08G81/02 C08G81/02F C08L23/04 M08L5/16 M08L51/06 M08L87/00B

US: 106/287.29 106/287.290S 264/176.1 264/176.100S 427/385.5 427/385.500S 428/220 428/220P 428/220S 428/292.7 428/315.9 428/339 428/34.1 428/35.7 428/35.700S 428/355EN 428/36.91 428/36.910P 428/36.92 428/373 428/373S 428/401 428/401S 428/511 428/511S 428/513 428/606 428/606P 428/77 428/77S 442/334 442/334S 442/351 442/351S 442/401 442/401S 524/210 524/48 525/178 525/185 525/186 525/187 525/190 525/207 525/231 525/231S 525/240 525/240S 525/264 525/285 525/326.1 525/327.4 525/329.5 525/451 525/54.2 525/54.200P 525/54.200S 525/54.21 525/54.23 525/54.24 525/54.240S 525/54.26 525/54.3 525/55 525/55S 525/64 525/64S 525/69 525/69P 525/7 525/70 525/70P 525/70S 526/238.22 526/238.220S 528/396 528/396S

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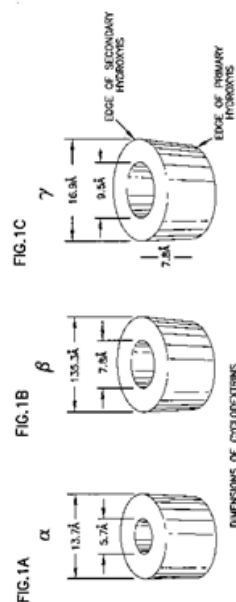
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Family:

Publication number	Publication date	Application number	Application date
CA2452293 AA	20040610	CA20032452293	20031205
CA2452293 C	20130409	CA20032452293	20031205
CA2531311 AA	20060627	CA20052531311	20051221
CA2531311 C	20121211	CA20052531311	20051221
CN1314746 C	20070509	CN200310124963	20031210
CN1609138 A	20050427	CN200310124963	20031210
EP1674522 A1	20060628	EP20050108685	20050921
HK1075059 A1	20071026	HK20050107300	20050822
HK1075059 A1	20051202	HK20050107300	20050822
HK1075059 A3	20051202	HK20050107300	20050822
HK1075059 B	20071026	HK20050107300	20050822
HK1088348 A1	20061103	HK20060110497	20060921
HK1088348 A3	20061103	HK20060110497	20060921
JP2004197084 A2	20040715	JP20030397846	20031127
JP2006183033 A2	20060713	JP20050316721	20051031
JP4970706 B2	20120711	JP20030397846	20031127
KR101120203 B1	20120323	KR20030089771	20031210
KR20040050886 A	20040617	KR20030089771	20031210
MX347751 B	20170511	MX20080011193	20051208
MXPA03011425 A1	20050603	MX2003PA11425	20031210
MXPA05013342 A1	20060626	MX2005PA13342	20051208
NO20035472 A0	20031209	NO20030005472	20031209
US2004110901 AA	20040610	US20030672297	20030925
US2005131119 AA	20050616	US20040023288	20041227
US2006182917 AA	20060817	US20060403457	20060413
US2006183856 AA	20060817	US20060403446	20060413
US2006183857 AA	20060817	US20060403480	20060413
US2006205873 AA	20060914	US20060429579	20060505
US2007264520 AA	20071115	US20070761105	20070611

PatBase - US2004110901_AA

Patent Application Publication Jun. 10, 2004 Sheet 1 of 7 US 2004/0110901 A1



US2008032110 AA	20080207	US20070761017	20070611
US7166671 BB	20070123	US20030672297	20030925
US7365123 BB	20080429	US20060403446	20060413
US7385004 BB	20080610	US20040023288	20041227
US7605199 BB	20091020	US20060429579	20060505
US7795333 BB	20100914	US20060403480	20060413
US8129450 BB	20120306	US20070761105	20070611
US8334343 BB	20121218	US20070761017	20070611
US8501308 BB	20130806	US20060403457	20060413

Priority:

US20020432523P 20021210 US20030672297 20030925 CA20032452293 20031205
US20040023288 20041227 CA20052531311 20051221 US20060403446 20060413
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Inventor(s): WOOD WILLARD ; BEAVERSON NEIL ; NEIL J BEAVERSON ; SEETHAMRAJU KASYAP ; KELLENBERGER STANLEY ; KASYAP V SEETHAMRAJU ; BOHRER TIMOTHY

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Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

10) Family number: 43812213 (US2010310890A)

© PatBase

Title: HEAT SEALABLE MULTILAYER FILM

Abstract: Heat sealable multilayer films can package oil-rich contents to be retort sterilized without separation (delamination) of a cohesive failure heat seal layer due to penetration of oil from the contents and have appropriate heat seal strength and excellent easy openability, and can be opened with stable peel conditions. A heat sealable multilayer film includes a cohesive failure heat seal layer (1) that includes a resin composition including 75 to 85 wt percent of a propylene polymer (A) and 15 to 25 wt percent of an ethylene polymer (B) (based on the total of (A) and (B) of 100 wt percent), and a support layer (2) including a propylene block copolymer (C).

Classifications:

International (IPC 8-9): B32B27/00 B32B27/06 B32B27/08 B32B27/32 B32B37/06 C08J5/18 (Advanced/Invention);

B32B27/08 B32B27/32 B32B37/06 C08J5/18 (Advanced/Non-invention);

B32B27/32 (Core/Invention);

B32B27/32 (Core/Non-invention)

CPC: Y10T428/31909 Y10T428/31913 B32B7/06 B32B15/08 B32B15/20 B32B27/10 B32B27/16 B32B27/302 B32B27/304

B32B27/306 B32B27/308 B32B27/34 B32B27/36 B32B27/365 B32B2270/00 B32B2307/30 B32B2307/31 B32B2307/50

B32B2307/514 B32B2307/72 B32B2307/748 B32B2307/75 B32B2439/70 B32B27/32 B32B27/08 B32B27/06 B32B2250/03

B32B2250/242 B32B2307/306

European: B32B27/32

US: 428/515 428/516 428/516P

JP F-Term: 4F100 4F100/AK01/C 4F100/AK04/A 4F100/AK06/A 4F100/AK06/B 4F100/AK07/A 4F100/AK07/B 4F100/AK07/C

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4F100/BA10/C 4F100/GB16 4F100/JA04/A 4F100/JA04/B 4F100/JA04/C 4F100/JA06/A 4F100/JA06/B 4F100/JB01

4F100/JK01/A 4F100/JK06 4F100/JL12/A 4F100/YY00/A

JP F-Index: B32B27/00/M B32B27/32/103

Family:

Publication number	Publication date	Application number	Application date
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CN105252860 A	20160120	CN201510685680	20090402
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JP5466636 B2	20140409	JP20100505982T	20090402
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TW200942411 A	20091016	TW20090111140	20090403
TWI404632 B	20130811	TW20090111140	20090403
US2010310890 AA	20101209	US20090867636	20090402
US8293375 BB	20121023	US20090867636	20090402
WO09123286 A1	20091008	WO2009JP56894	20090402

Priority:

JP20080097632 20080403 JP20080207528 20080811 CN200980112356 20090402
WO2009JP56894 20090402 JP20100505982 20090402

Probable Assignee: MITSUI CHEMICALS TOHCELLO INC

Assignee(s): (std): MITSUI CHEMICALS TOHCELLO INC ; SHIMIZU TAKESHI ; TAKEISHI ICHIRO ; TOHCELLO CO LTD

Assignee(s): TOHCELLO CO

Inventor(s): (std): SHIMIZU TAKESHI ; TAKEISHI ICHIRO ; TAKESHI SHIMIZU ; ICHIRO TAKEISHI

Inventor(s): TAKEISHI, Ichiro ; SHIMIZU, Takeshi

Agent(s): BUCHANAN INGERSOLL AND ROONEY PC; SUZUKI SHUNICHIRO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL

IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW
MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY
SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 29372247 (US4944972A)

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Title: COEXTRUSION APPARATUS, METHODS, AND RELATED FILMS AND PACKAGES

Abstract: Apparatus and method for fabricating films, especially films containing vinylidene chloride copolymer, wherein the process is susceptible of continued operation over an extended period of time greater than a few days. The process typically can operate for at least 2 weeks between shut downs for cleaning the die. The apparatus comprises a coextrusion feedblock 20 in combination with an annular extrusion die 10 having a crosshead mandrel 11, and means for conveying the exit stream 24 from the feedblock to the die. The particular apparatus combination especially reduces the rate of carbon buildup in the extrusion apparatus during extrusion of VDC-copolymer, such that the extrusion process can be operated for a longer time between shutdowns for cleaning and maintenance of the die. The invention further includes novel tubular films 32 made with the apparatus and methods of the invention, and packages made from the films. In general, the method of the invention produces tubular films having more layers than the annular extrusion die has annular orifices.

Classifications:

International (IPC 8-9): B29C47/02 B29C47/04 B29C47/06
B29C47/14 B29C47/26 B29C47/28 B29C47/30 B29C47/56
B29C47/86 B29C69/00 B29D7/01 B32B1/08 B32B27/00 B32B27/08
B32B27/28 B32B27/30 B32B27/32 B32B37/15 B32B7/02 B32B7/04
B32B7/12 B60P3/11 B60P7/06 B64F1/36 B65D35/02 B65D65/00
B65D65/40 (Advanced/Invention);
B29C47/02 B29C47/04 B29C47/26 B29K27/00 B29L7/00
B29L9/00 (Advanced/Non-invention);
B29C47/02 B29C47/04 B29C47/06 B29C47/14 B29C47/20
B29C47/26 B29C47/30 B29C47/36 B29C47/78 B29C69/00 B29D7/00
B32B1/00 B32B27/00 B32B27/08 B32B27/28 B32B27/30 B32B27/32
B32B37/14 B32B7/02 B32B7/04 B32B7/12 B65D35/02 B65D65/00
B65D65/40 (Core/Invention)

International (IPC 1-7): B29C47/00 B29C47/04 B29C47/06
B29C47/08 B29C47/14 B29C47/20 B29C47/26 B29C47/28
B29C47/34 B29C47/36 B29C47/56 B29C47/92 B29D23/00 B29D9/00
B29K27/00 B29L9/00 B32B1/02 B32B1/08 B32B27/00 B32B27/08
B32B27/28 B32B27/30 B32B27/32 B32B31/00 B32B31/04
B32B31/30 B32B33/00 B32B7/02 B32B7/04 B32B7/12 B60P3/11
B60P7/06 B64F1/36 B65D30/00 B65D30/08 B65D35/02 B65D65/00
B65D65/40 B65D81/24 C08J5/00

CPC: B29C47/0016 B29C47/003 Y10T428/1334 Y10T428/1341
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Y10T428/31786 Y10T428/3192 Y10T428/249921 Y10T428/31855

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B29C47/128 B29C47/145 B29C47/56 B29C2793/0063 B32B37/153

European: B29C47/00J4 B29C47/00J6 B29C47/00J7 B29C47/00L12
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US: 138/128 138/137 138/151 264/171 264/171.27 264/173 264/173.13 264/173.14 264/209.8 264/40.7 264/514 425/131.1
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428/476.3 428/480 428/500 428/518

JP F-Term: 4F207 4F207/AA04 4F207/AA08 4F207/AA10 4F207/AA11 4F207/AA14/E 4F207/AA19 4F207/AA22 4F207/AG03
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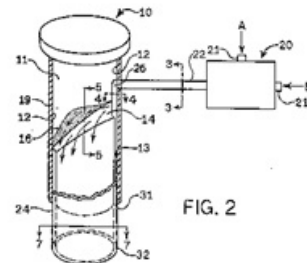
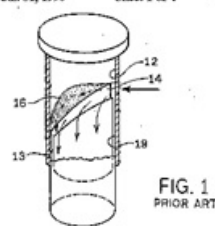
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Publication number	Publication date	Application number	Application date
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Priority:

US19870140096 19871231	US19880204485 19880609	JP19880153562 19880623
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Probable Assignee: EXOPACK LLC

Assignee(s): (std): AMERICAN NATIONAL CAN COMPANY ; AMERICAN NAT CAN CO ; AMERICAN NAT CAN COMPANY ; AMERICAN NATIONAL CAN COMPANY ; AMERICAN NATIONAL CAN CO ; NATL CAN CORP ; NAT CAN CORP ; YAMAHA MOTOR CO LTD ; AMERICAN NATL CAN CO

Assignee(s): AMERIKAN NASHONARU KYAN CO ; ALCAN PACKAGING FLEXIBLE FRANCE ; EXOPACK LLC ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS ; PECHINEY PLASTIC PACKAGINC INC ; PECHINEY PLASTIC PACKAGING INC ; PECHINEY EMBALLAGE FLEXIBLE EUROPE ; AMERICAN NATIONAL CAN CO 8101 HIGGINS RIOAD CHICAG ; AMERICAN NATIONAL CAN CO 8101 HIGGINS RIOAD CHICAGO ILLINOIS 60631 A CORP OF DE ; BEMIS CO INC ; BANK OF AMERICA NA AGENT AS ; AMERICAN NATIONAL CAN CO A CORP OF DELAWARE ; AMERICAN NATIONAL CAN CO CHICAGO ILL US ; BLEMBERG ROBERT JOHN ; COVERIS ADVANCED COATINGS US LLC WAS EXOPACK ADVANCED COATINGS LLC ; COVERIS FLEXIBLES US LLC WAS EXOPACK LLC ; COVERIS TECHNOLOGY LLC WAS EXOPACK TECHNOLOGY LLC ; COVERIS ADVANCED COATINGS US LLC WAS KNOWN AS EXOPACK ADVANCED COATINGS LLC.. ; COVERIS FLEXIBLES US LLC WAS KNOWN AS EXOPACK LLC.. ; COVERIS TECHNOLOGY LLC WAS KNOWN AS EXOPACK TECHNOLOGY LLC..

Inventor(s): (std): BANIK DAVID M ; BAUER FRANK T ; BLEMBERG ROBERT J ; BLEMBERG ROBERT J ; BLEMBERG ROBERT JOHN ; CURIE KEVIN J ; ECKSTEIN JOHN P ; ECKSTEIN JOHN PAUL ; GUSTAFSON GRANT A ; NORDNESS MARK E ; NORDNESS MARK EDWARD ; ROBAATO JIYON BUREMUBAAGU ; ROBAATO JIYON BURENBAAGU ; TANIYAMA SHOEI ; ROBERT JOHN BLEMBERG ; ROBERT J BLEMBERG ; KEVIN J CURIE ; KESTER DENNIS ; JOHN P ECKSTEIN ; DENNIS KESTER ; DENISU KESUTAA

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; MARKS AND CLERK

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

12) Family number: 44992248 (US2011214395A)

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Title: CURL-FREE POLYOLEFIN-BASED FILM USED FOR THE PACKAGING OF STERILE PRODUCTS

Abstract: The present invention relates to a coextruded multilayer polyolefin film, said polyolefin film being substantially curl-free in use, said polyolefin film comprising: a polyolefinic base layer comprising between 10 percent and 50 percent by weight of a cyclic olefin copolymer having a Tg higher than 130 degrees centigrade; a polyolefinic sealing layer having a

thickness between 5 and 15 percent of the total film thickness.

Classifications:

International (IPC 8-9): B32B27/00 B32B27/08 B32B27/32

B32B7/02 B32B7/06 B65B55/02 B65D65/40

C08L23/02 (Advanced/Invention);

B32B27/32 B65D65/40 C08L23/00 (Core/Invention)

International (IPC 1-7): B32B 27/32 B32B27/32

CPC: Y10T428/2495 B32B27/32 C08L23/04 C08L23/18 B32B27/08

B32B27/36 B32B2250/24 B32B2307/306 B32B2307/31

B32B2307/514 B32B2307/72 B32B2307/734 B32B2439/80

European: B32B27/32 C08L23/04 C08L23/18 M08L23/04 M08L23/18

US: 428/213 428/213S 53/425 53/425P

JP F-Term: 3E086 3E086/AB01 3E086/AD30 3E086/BA04 3E086/BA15 3E086/BA50 3E086/BB68 3E086/CA27 4F100

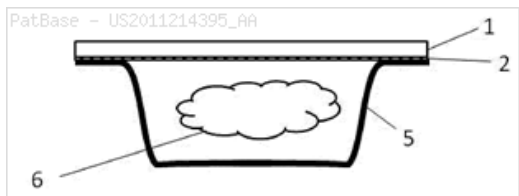
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4F100/BA25/A 4F100/EH20 4F100/GB15 4F100/JA05/A 4F100/JB00/A 4F100/JC00 4F100/JD01 4F100/JJ03 4F100/JL04

4F100/JL04/A 4F100/JL04/B 4F100/JL11 4F100/JL14 4F100/JL14/B 4F100/YY00/A 4F100/YY00/B

JP F-Index: B32B27/00/A B32B27/32/E B32B27/32/103 B32B7/06 B65D65/40/F



Family:

Publication number	Publication date	Application number	Application date
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CA2739525 AA	20100520	CA20092739525	20090825
CN102216076 A	20111012	CN200980144983	20090825
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US2011214395 AA	20110908	US20090128531	20090825
WO10054866 A1	20100520	WO2009EP60907	20090825

Priority:

EP20080169056 20081113

EP20090825783 20090825

WO2009EP60907 20090825

Probable Assignee: AMCOR FLEXIBLES TRANSPAC NV

Assignee(s): (std): AMCOR FLEXIBLES TRANSPAC NV ; AMCOR FLEXIBLES TRANSPAC N V ; AMCOR FLEXIBLES TRANSPAC NV ; BUYSENS KRIS ; MALFAIT TONY

Inventor(s): (std): BUYSENS KRIS ; KRIS BUYSENS ; MALFAIT TONY ; TONY MALFAIT

Agent(s): WRAYS; GOWLING LAFLEUR HENDERSON LLP; PRONOVEM; PRONOVEM OFFICE VAN MALDEREN

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 4598258 (US5017429A)

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Title: PACKAGING MATERIAL FOR PHOTSENSITIVE MATERIALS

Abstract: A packaging material for photosensitive materials which comprises a laminated film comprising a thermoplastic resin heat seal layer and a metal foil or metallized flexible sheet layer laminated through a linear low density polyethylene resin extrusion laminating adhesive layer of which the resin composition is 30 to 90 weight percent of linear low density polyethylene resin being a copolymer resin of ethylene and alpha-olefin and 70 to 10 weight percent of high pressure low density polyethylene resin, the melt index of the blended resin is 5 to 20 g/10 minutes, the density of the blended resin is 0.870 to 0.930 g/cm³, the optical density of the transmitted light of said laminated film is more than 4.0, and the moisture permeability of the laminated film is less than 2.0 g/m² 2.24 hours.

Classifications:

International (IPC 8-9): B32B15/08 B32B15/085 B65D65/40

G03C3/00 (Advanced/Invention);

B32B15/08 B65D65/40 G03C3/00 (Core/Invention)

International (IPC 1-7): B32B15/08 B65D65/40 C09J7/02 G03C3/00

CPC: Y10S428/913 G03C3/00 Y10T428/2826 Y10T428/2848

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European: B32B15/08 G03C3/00

US: 428/349 428/354 428/355 428/355BL 428/355EN 428/356

428/458 428/461 428/516 428/522 428/913

JP F-Term: 2H024 3E086 3E086/AB01 3E086/AB02 3E086/AD01

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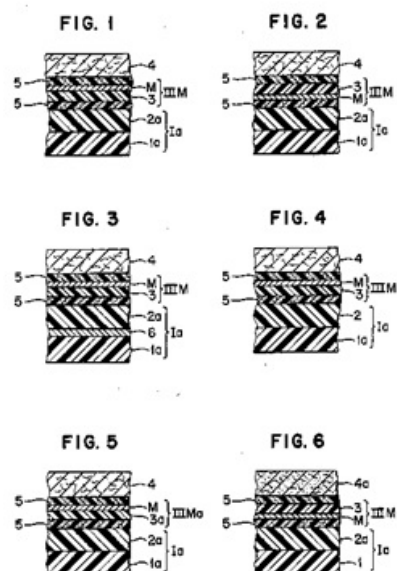
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**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

JP19870118559 19870515 US19880194092 19880516

Probable Assignee: FUJIFILM HOLDINGS CORP**Assignee(s):** (std): FUJI PHOTO FILM CO LTD**Assignee(s):** FUJI PHOTO FILM CO LTD MINAMI ASHIGARA KANAGAWA JP ; FUJIFILM CORP ; FUJIFILM HOLDINGS CORP ; FUJI PHOTO FILM CO**Inventor(s):** (std): AKAO MUTSUO**Inventor(s):** AKAO MUTSUO MINAMI ASHIGARA SHI KANAGAWA JP**Designated states:** DE NL**14) Family number: 30991266** (GB2249785A)

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Title: Process for removing nitrates from drinkable water by using membrane systems

Abstract: Process for removing nitrates and other ions, such as chlorides, sulphates and others, from drinking water, which consists in subjecting the crude water to be purified to a plurality of membrane purification means, particularly within electrodialysis units of the polarity-reversal type, arranged in series so as to allow the units to progressively purify the water until the concentration of nitrates and other ions is reduced at least below the limits prescribed by statutory provisions for drinking water, in then concentrating in a single flow "C" all the waste water in output from the electrodialysis units and in then subjecting the concentrated discharge flow "C" to a biological denitrification treatment, so as to obtain waste water with a content of nitrates and other ions which is within the limits set by the rules for waste water.

Classifications:**International (IPC 8-9):** B01D61/44 C02F1/469

C02F3/30 (Advanced/Invention);

B01D61/42 C02F1/469 C02F3/30 (Core/Invention)

International (IPC 1-7): B32B27/08 B65D30/08 B65D65/40

B65D71/08 C02B C02F1/44 C02F1/469 C02F1/58 C02F3/04

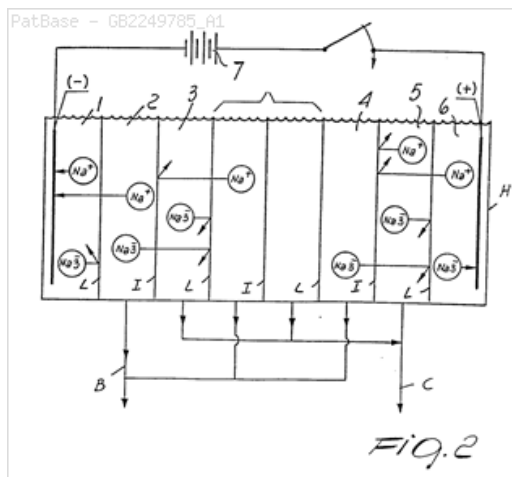
C02F3/06 C02F3/08 C02F3/28 C02F9/00

CPC: B01D61/44 C02F1/4693 C02F3/302 C02F2101/163

C02F2201/46115

European: B01D61/44 C02F1/469D C02F3/30D M02F101/16B

M02F201/461B4



Family:

Publication number	Publication date	Application number	Application date
DE4137725 A1	19920521	DE19914137725	19911115
FR2669324 A1	19920522	FR19910013933	19911113
FR2669324 B1	19941028	FR19910013933	19911113
GB2249785 A1	19920520	GB19910024206	19911114
GB2249785 B2	19940824	GB19910024206	19911114
GB9124206 A0	19920108	GB19910024206	19911114
IL99932 A1	19950330	IL19910099932	19911101
IT1245742 B	19941014	IT19900022079	19901116
IT9022079 A0	19901116	IT19900022079	19901116
IT9022079 A1	19920517	IT19900022079	19901116

Priority:

IT19900022078 19901116 IT19900022079 19901116

Probable Assignee: IONICS ITALBA SPA

Assignee(s): (std): GRACE W R AND CO ; IONICS ITALBA ; IONICS ITALBA SPA ; W R GRACE AND CO

Assignee(s): WR GRACE AND CO CONN ; IONICS ITALBA S P A MAILAND MILANO IT ; IONICS ITALBA S P A

Inventor(s): (std): FRANCO CIALLE ; GUIDO VACCARO ; CILLIE FRANCO ; VACCARO GUIDO ; CIALLE FRANCO

Inventor(s): CIALLE FRANCO SEGRATE IT ; VACCARO GUIDO MAILAND MILANO IT

Agent(s): REINHOLD COHN AND PARTNERS

15) Family number: 28279267 (US2002172834A)

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Title: PEELABLY SEALED PACKAGING

Abstract: A peelably sealed package includes a web having a peelable layer and a substrate having a surface layer. The peelable layer includes a blend of: i) from about 3 to about 15 weight parts polybutylene, ii) from about 40 to about 75 weight parts ionomer, and iii) from about 20 to about 55 weight parts ethylene/unsaturated ester copolymer such as a vinyl ester of aliphatic carboxylic acid or an alkyl ester of acrylic or methacrylic acid. The surface layer of the substrate includes a polyethylene having a density of from about 0.915 to about 0.93 g/cc, an ionomer, or a mixture of these polymers. The peelable layer of the web and the surface layer of the substrate are peelably sealed to each other in one or more selected areas. The peelable layer may form a peelable seal having a peel strength that is essentially equivalent regardless of whether the contact surface of the substrate is a polyethylene or an ionomer.

Classifications:

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

B65D75/58 (Advanced/Invention);

B32B27/08 B32B27/32 B65D75/52 (Core/Invention)

International (IPC 1-7): B32B27/08 B32B27/28 B32B27/32

B65D30/08 B65D75/58

CPC: Y10T428/14 Y10T428/2878 B65D75/5855 Y10T428/31855

Y10T428/31902 Y10T428/31909 B32B7/06 B32B2435/02

B32B2439/70 B32B27/08 B32B27/32

European: B32B27/08 B32B27/32 B65D75/58F

US: 206/484 383/109 383/109S 428/355 428/355.0EN 428/355EN 428/40.1 428/500 428/513 428/515 428/515P

thickness of 5 to 80 fEm made of an ethylene-f-olefin copolymer having a density or 0.910 to 0.950 grams per cubic centimetre. This multi-layer film is suited for use as a material for production of a medicine container 10 because it suppresses adsorption of a medicine by the barrier layer and is also superior in strength and flexibility.

Classifications:

International (ipc 8-9): A61J1/00 A61J1/10 B32B1/02 B32B17/10 B32B27/00 B32B27/08 B32B27/32 B32B7/02 B65D1/00 B65D30/08 B65D65/40 (Advanced/Invention);

A61J1/00 A61J1/05 B32B27/32 (Advanced/Non-invention);
A61J1/10 B32B1/00 B32B17/06 B32B27/00 B32B27/08 B32B27/32 B32B7/02 B65D1/00 B65D30/08 B65D65/40 (Core/Invention);
A61J1/00 A61J1/05 (Core/Non-invention)

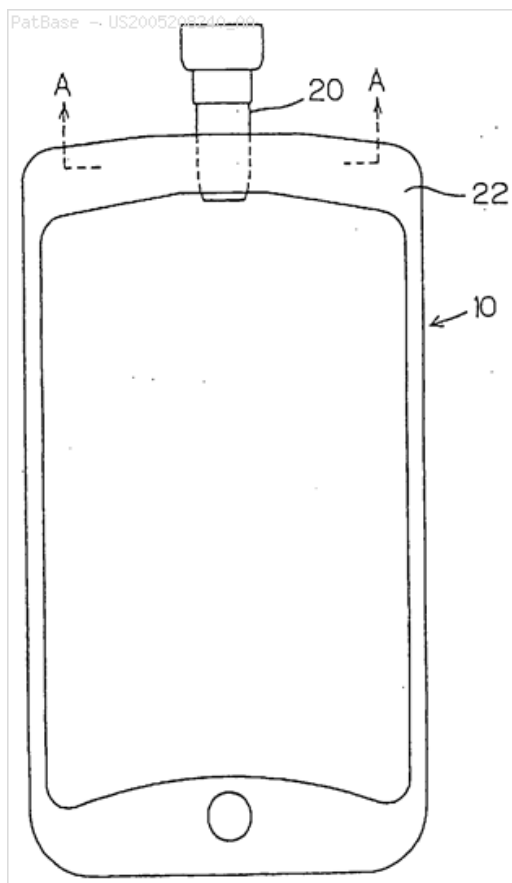
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CPC: B32B27/322 A61J1/05 B32B1/02 Y10T428/13 Y10T428/1317 Y10T428/1334 Y10T428/1352 Y10T428/2495 Y10T428/24967 Y10T428/269 Y10T428/31913 B32B27/08 B32B2307/306 B32B2307/31 B32B2307/558 B32B2307/7242 B32B2307/7246 B32B2439/40 B32B27/32

European: B32B1/02 B32B27/32 B32B27/32A K61J1/00T K61J1/05
US: 383/105 383/109 383/109P 428/213 428/215 428/215S 428/339 428/34.1 428/34.6 428/35.2 428/35.7 428/516

JP F-Term: 3E086 3E086/AD01 3E086/BA04 3E086/BA15 3E086/BB41 3E086/BB85 3E086/BB90 3E086/CA28 4C047 4C047/GG04 4F100 4F100/AK02 4F100/AK05 4F100/AK62 4F100/AK65 4F100/AL05 4F100/BA04 4F100/BA07 4F100/BA10 4F100/EH20 4F100/GB16 4F100/GB17 4F100/GB66 4F100/JA06 4F100/JA13 4F100/JD01 4F100/JD14 4F100/JJ03 4F100/JK01 4F100/JK13 4F100/JL12 4F100/YY00

JP F-Index: A61J1/00/331/C A61J1/10/331/C B32B27/00/A B32B27/32/103 B65D65/40/A B65D65/40/D



Family:

Publication number	Publication date	Application number	Application date
AT307719 E	20051115	AT20030723288T	20030509
AU2003235910 AA	20031202	AU20030235910	20030509
AU2003235910 BB	20070920	AU20030235910	20030509
CA2485831 AA	20041112	CA20032485831	20030509
CA2485831 C	20080708	CA20032485831	20030509
CN100377871 C	20080402	CN20038011247	20030509
CN1652935 A	20050810	CN20038011247	20030509
DE60302066 D1	20051201	DE20036002066	20030509
DE60302066 D1	20051201	DE20036002066T	20030509
DE60302066 T2	20060713	DE20036002066T	20030509
DK1507662 T3	20060130	DK20030723288T	20030509
EG24596 A	20091213	EG20030050456	20030519
EP1507662 A1	20050223	EP20030723288	20030509
EP1507662 B1	20051026	EP20030723288	20030509
ES2247537 T3	20060301	ES20030723288T	20030509
IN03532DN2004 A	20091009	IN2004DN03532	20041111
IN255249 B	20130208	IN2004DN03532	20041111
JP2005525952 T2	20050902	JP20040504725T	20030509
JP4732751 B2	20110727	JP20040504725T	20030509
KR100610290 B1	20060809	KR20047018473	20030509
KR20040111618 A	20041231	KR20047018473	20030509
MY134275 A	20071130	MY20030001555	20030424
TH66375 A	20050114	TH20031001667	20030502
TW200400113 A	20040101	TW20030113228	20030515
TWI232171 B	20050511	TW20030113228	20030515
US2005208240 AA	20050922	US20030514659	20030509
US2010075081 AA	20100325	US20090385371	20090406
US2010195938 AA	20100805	US20090591754	20091130
US8029885 BB	20111004	US20090591754	20091130
VN5868 A1	20061025	VN20040001322	20030509
WO03097355 A1	20031127	WO2003JP05808	20030509

Priority:

JP20020143342	20020517	JP20020336859	20021120	JP20040504725	20030509
US20030514659	20030509	WO2003JP05808	20030509	US20040514659	20041116
US20090385371	20090406	US20090591754	20091130		

Probable Assignee: OTSUKA PHARMACEUTICAL FACTORY INC

Assignee(s): (std): KAWAKAMI KEIICHI ; MANABE YUKI ; MANABE YUKI MANABE ; OKAMOTO HIDESHI ; OTSUKA PHARMA CO LTD ; OTSUKA PHARMACEUT FACTORY INC ; OTSUKA PHARMACEUTICAL FACTORY INC

Assignee(s): OTSUKA PHARMA CO

Inventor(s): (std): HIDESHI OKAMOTO ; KAWAKAMI KEIICHI ; KEIICHI KAWAKAMI ; MANABE YUKI ; OKAMOTO HIDESHI ; YUKI MANABE ; MANABE YUKI MANABE

Agent(s): GRIFFITH HACK; RICHES MCKENZIE AND HERBERT LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

Designated states: AT AU BE BG CA CH CN CY CZ DE DK EE ES FI FR GB GR HU ID IE IN IT JP KR LI LU MC NL PH PT RO SE SG SI SK TR US VN

17) Family number: 34286355 (US2007062825A) © PatBase

Title: MULTI-CHAMBER CONTAINER

Abstract: A multi-chamber container having chambers formed of a film of which at least an innermost layer is a cyclic polyolefin, one chamber being partitioned from another chamber by a partition wall, and the partition wall having an easily peelable seal layer which contains a low-density polyethylene and a propylene/alpha-olefin copolymer. The multi-chamber container enables the contents of the chambers to be mixed together.

Classifications:

International (IPC 8-9): A61J1/05 B32B27/32 A61J1/00 A61J1/10 A61J1/16 B32B7/06 B65D25/04 B65D25/08 B65D25/14 B65D33/00 B65D65/40 B65D77/04 B65D81/24 B65D81/32 (Advanced/Invention); A61J1/00 B65D25/04 B65D25/14 (Advanced/Non-invention); A61J1/00 A61J1/05 A61J1/10 A61J1/14 B32B27/32 B65D25/04 B65D25/14 B65D33/00 B65D65/40 B65D77/04 B65D81/24 B65D81/32 (Core/Invention)

CPC: B32B15/20 B32B2439/40 A61J1/2093 A61M2207/00 B32B7/06 B32B15/085 B32B27/08 B32B27/32 B32B27/325 B32B27/36 B32B2255/10 B32B2255/20 B32B2255/205 B32B2307/546 B32B2307/7242 B32B2307/748 B32B2307/75 B32B2435/02 B32B2439/62 B32B2439/80 B65D81/3266 A61J1/2024

European: A61J1/00M4 A61J1/20D B32B15/085 B32B27/08 B32B27/32 B32B27/32B B32B27/36 B32B7/06 B65D81/32H1 K61J1/20A4A K61M207/00 L32B255/10 L32B255/20 L32B255/20A L32B307/546 L32B307/724B L32B307/748 L32B307/750 L32B435/02 L32B439/62 L32B439/80

US: 206/221

JP F-Term: 3E013 3E013/AB10 3E013/AC01 3E013/AC11 3E013/AC13 3E013/AD03 3E013/AE12 3E013/AF02 3E013/AF17 3E013/AF29 3E067 3E067/AB81 3E067/AC06 3E067/BA11 3E067/BB14 3E067/BB15 3E067/BB16 3E067/BB25 3E067/CA04 3E067/EA06 3E067/EC14 3E067/FC01 3E067/GD01 3E086 3E086/AC07 3E086/AD01 3E086/BA04 3E086/BA13 3E086/BA15 3E086/BB01 3E086/BB51 3E086/BB62 3E086/CA28 4C047 4C047/AA13 4C047/BB03 4C047/BB04 4C047/BB05 4C047/BB11 4C047/BB12 4C047/BB13 4C047/BB14 4C047/BB15 4C047/BB16 4C047/BB17 4C047/BB19 4C047/BB29 4C047/BB30 4C047/BB35 4C047/CC04 4C047/CC14 4C047/DD12 4C047/DD27 4C047/DD33 4C047/FF08 4C047/GG04 4C047/GG08 4C047/HH04 4C047/HH05

JP F-Index: A61J1/00/331/C A61J1/00/351/A A61J1/05/351/A A61J1/10/331/C B65D65/40/A B65D65/40/D B65D81/24/D B65D81/32/D

1422491 - TWI422491_B

七、指定代表圖：

(一)本案指定代表圖為：無。
(二)本代表圖之元件符號簡單說明：
無。

八、本案若有化學式時，請揭示最能顯示發明特徵的化學式：

無。

-4-

Family:

Publication number	Publication date	Application number	Application date
AT454982 E	20100115	AT20060018777T	20060907
CN1931118 A	20070321	CN200610153672	20060912
CN1931118 B	20120111	CN200610153672	20060912
DE602006011689 D1	20100304	DE200660011689T	20060907
EP1762379 A2	20070314	EP20060018777	20060907
EP1762379 A3	20070912	EP20060018777	20060907
EP1762379 B1	20100113	EP20060018777	20060907
JP2007098122 A2	20070419	JP20060244406	20060908
JP4888646 B2	20120229	JP20060244406	20060908
KR101310177 B1	20130923	KR20060081479	20060828
KR20070030121 A	20070315	KR20060081479	20060828
KR20130069701 A	20130626	KR20130062395	20130531
TW200720088 A	20070601	TW20060133476	20060911
TWI422491 B	20140111	TW20060133476	20060911
US2007062825 AA	20070322	US20060516719	20060907

Priority:

JP20050264383 20050912 JP20060244406 20060908

Probable Assignee: NIPRO CORP

Assignee(s): (std): HONDA MINORU ; KAWAMURA SHIN ICHI ; NIPPO CORP ; NIPRO CORP ; OMORI KENJI

Assignee(s): NIPRO CORPORATION

Inventor(s): (std): KAWAMURA SHIN ICH ; KAWAMURA SHIN ICHI ; KAWAMURA SHINICHI ; KAWAMURA SIN ICHI ; KENJI OMORI ; MINORU HONDA ; OMORI KENJI ; HONDA MINORU ; SHIN ICHI KAWAMURA

Inventor(s): KAWAMURA ; OMORI KENJI KAWAMURA SHIN ICHI HONDA MINORU

Agent(s): ALBRECHT THOMAS; KUBOVCIK AND KUBOVCIK

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 MK NL PL PT RO SE SI SK TR YU

18) Family number: 28996381 (US2003196418A) © PatBase

Title: CONTAINER CLOSURE

Abstract: A one-component seal and wadding system (1) for a screw-cap includes a seal (3) having lower layers (4,5) forming an induction heating sealable system for attaching the seal (3) to the neck of a container, a seal substrate (6) including a free tab (50) lying wholly within the circumference of the seal, a layer of liner (2), and attachment means (10,11,12) including a release layer (11) for attaching the seal substrate (7) including the tab (50) to the wadding (2).

Classifications:

International (IPC 8-9): B65B7/28 B32B27/08 B65D39/02

B65D51/20 B65D53/00 B65D53/04 (Advanced/Invention);

B65B7/28 B65D51/20 B65D53/00 (Advanced/Non-invention)

International (IPC 1-7): B65B7/28 B65D1/00 B65D39/00 B65D51/20 B65D53/00 B65D53/04

CPC: Y10T428/1352 B32B27/08 B65D53/04 B65D2251/0015

B65D2251/0093 B65D51/20

European: B32B27/08 B65D51/20 B65D53/04 L65D251/00Y2D

L65D251/00Y6M

US: 215/232 215/347 215/35 215/350 215/364 428/35.7

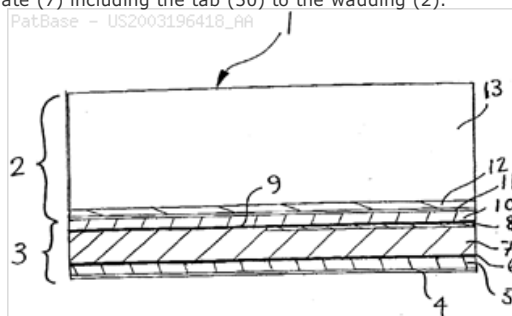
428/35.700P 53/490

JP F-Term: 3E084 3E084/AA04 3E084/AA12 3E084/AB07

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3E084/GB04 3E084/HA01 3E084/HB05 3E084/HC08 3E084/HD01

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

**Family:**

Publication number	Publication date	Application number	Application date
AT398584 E	20080715	AT20030737381T	20030206
AU2003244512 AA	20030902	AU20030244512	20030206
AU2006223228 AA	20060921	AU20060223228	20060313
AU2007249092 AA	20080110	AU20070249092	20071218
AU2007249092 BB	20100729	AU20070249092	20071218
AU2010235879 AA	20101111	AU20100235879	20101018
AU2010235879 BB	20111201	AU20100235879	20101018
BRPI0307488 A	20041207	BR2003PI07488	20030206
BRPI0307488 B1	20140311	BR2003PI07488	20030206
BRPI0608715 A2	20100126	BR2006PI08715	20060313
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CA2475353 C	20071204	CA20032475353	20030206
CN1321041 C	20070613	CN20038006231	20030206
CN1642820 A	20050720	CN20038006231	20030206
DE60321657 D1	20080731	DE20036021657	20030206
EP1472153 A1	20041103	EP20030737381	20030206
EP1472153 B1	20080618	EP20030737381	20030206
EP1472153 B2	20160928	EP20030737381	20030206
EP1858773 A1	20071128	EP20060737953	20060313
JP2005516863 T2	20050609	JP20030565856T	20030206
KR100964349 B1	20100617	KR20047012218	20030206
KR20040083439 A	20041001	KR20047012218	20030206
MXPA04007682 A1	20041110	MX2004PA07682	20030206
NZ534562 A	20060331	NZ20030534562	20030206
TW200405880 A	20040416	TW20030102547	20030207
TW200706462 A	20070216	TW20060108635	20060314
TWI272218 B	20070201	TW20030102547	20030207
US2003196418 AA	20031023	US20030359287	20030206
US2005208242 AA	20050922	US20050078716	20050314
US6902075 BB	20050607	US20030359287	20030206
WO03066465 A1	20030814	WO2003GB00543	20030206
WO06099260 A1	20060921	WO2006US08834	20060313

Priority:

EP20020250852 20020207 AU20030244512 20030206 EP20030737381 20030206
US20030359287 20030206 WO2003GB00543 20030206 US20050078716 20050314
WO2006US08834 20060313 AU20070249092 20071218 AU20100235879 20101018

Probable Assignee: SELIG SEALING PRODUCTS INC

Assignee(s): (std): ILLINOIS TOOL WORKS ; ILLINOIS TOOL WORKS INC ; O BRIEN DAVID JOHN ; SMELKO JOSEPH ; THORSTENSEN WOLL ROBERT WILLIA ; SACHS VICTOR ; SELIG SEALING PRODUCTS INC

Assignee(s): GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP ; THORSTENSEN WOLL ROBERT WILLIAM ; ILLINOIS TOOL WORKS INC 3000 WEST LAKE

Inventor(s): (std): JOHN O BRIEN DAVID ; JOSEPH SMELKO ; O BRIEN DAVID ; OAEBRIEN DAVID JOHN ; ROBERT WILLIAM THORSTENSEN WOL ; ROBERT WILLIAM THORSTENSEN WOLL ; THORSTENSEN WOLL ROBERT ; THORSTENSEN WOLL ROBERT W ; THORSTENSEN WOLL ROBERT WILLIAM ; VICTOR SACHS ; WILLIA THORSTENSEN WOLL ROBERT ; WILLIAM THORSTENSEN WOLL ROBERT ; WILLIA O BRIEN DAVID JOHN SACH ; THORSTENSEN WOLL ROBERT WILLIA ; SMELKO JOSEPH ; SACHS VICTOR ; O BRIEN DAVID JOHN

Inventor(s): DAVID JOHN O BRIEN ; O BRIEN DAVID JOHN SACHS VICTOR SMELKO JOSEPH ; ROBERT WILLIAM THORSTENSEN-WOLL

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FINLAYSON AND SINGLEHURST; JONES HELEN MM; GILL JENNINGS AND EVERY LLP; LOWE HAUPTMAN GILMAN AND BERNER LLP; LOWE HAUPTMAN AND BERNER LLP

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

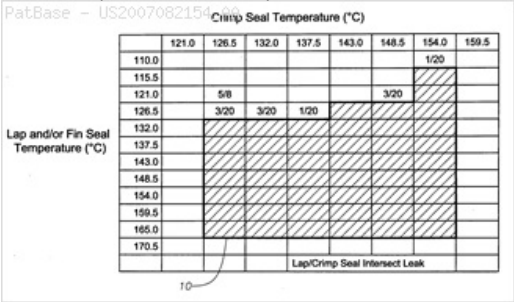
Abstract: Multi-layer films particularly suited for packaging applications, including a core layer, a tie layer made from at least 10 wt percent of a first polymer and where the first polymer preferably is not present in the core layer are provided. Optionally, the multi-layer film may have a skin layer, a second tie layer and/or a second skin layer. Embodiments may have the advantage of improved seal strength, hermeticity, hot tack and reduced-temperature sealability.

Classifications:

International (IPC 8-9): B05D1/36 B29D22/00 B32B15/04 B32B23/08 B32B27/08 B32B27/10 B32B27/12 B32B27/32 B32B37/02 B32B7/12 C23C16/00 (Advanced/Invention); B05D1/36 B32B15/04 B32B23/00 B32B27/08 B32B27/10 B32B27/32 B32B37/02 B32B7/12 C23C16/00 (Core/Invention)
CPC: Y10T428/1334 Y10T428/1352 Y10T428/1307 Y10T428/1355 Y10T428/1362 Y10T428/1379 B65D65/42 B32B7/12 B32B27/18 B32B27/20 B32B27/205 B32B27/302 B32B27/306 B32B27/325 B32B27/327 B32B2250/24 B32B2255/10 B32B2255/26 B32B2270/00 B32B2307/50 B32B2307/516 B32B2307/518 B32B2307/54 B32B2307/546 B32B2307/5825 B32B2307/7242 B32B2307/7265 B32B2307/75 B32B2439/70 B32B2553/00 Y10T428/31938 Y10T428/31678 Y10T428/31899 B32B5/02 B32B27/12 B32B29/00 B32B2255/205 B32B2307/30 B32B2307/41 B32B2307/72 B32B2307/7246 B32B2439/46 B32B37/153 B32B2307/4026 B32B2307/718 B32B2581/00 B32B37/12 B32B2307/514 B32B2038/0092 B32B2317/12 B32B2323/04 B32B2323/10 B32B2329/04 B32B2439/40 B32B27/08 B32B27/32 B32B27/10 B32B2307/31

European: B32B27/08 B32B27/32 B65D65/42

US: 156/183 427/248.1 427/248.100S 427/402 427/402S 428/34.3 428/35.2 428/35.7 428/35.700P 428/35.8 428/36.1 428/36.6 428/457 428/457P 428/512 428/512S 428/523 428/523S



Family:

Publication number	Publication date	Application number	Application date
CA2625733 AA	20080411	CA20062625733	20060825
CA2625760 AA	20080410	CA20062625760	20061005
CA2625760 C	20140610	CA20062625760	20061005
CA2625996 AA	20080411	CA20062625996	20061005
CN101287598 A	20081015	CN200680037965	20060825
CN101287598 B	20160803	CN200680037965	20060825
CN101287599 A	20081015	CN200680038235	20061005
CN101287599 B	20121017	CN200680038235	20061005
CN101309800 A	20081119	CN200680043057	20061005
CN101309800 B	20140514	CN200680043057	20061005
CN102909924 A	20130206	CN201210422980	20061005
CN102909924 B	20180717	CN201210422980	20061005
EP1945450 A2	20080723	EP20060802437	20060825
EP1945451 A1	20080723	EP20060816330	20061005
EP1945451 B1	20171108	EP20060816330	20061005
EP1945452 A1	20080723	EP20060816332	20061005
ES2655324 T3	20180219	ES20060816330T	20061005
US2007082154 AA	20070412	US20050248838	20051012
US2007082155 AA	20070412	US20060521657	20060915
US2008070047 AA	20080320	US20060522263	20060915
US2009136698 AA	20090528	US20090363111	20090130
US2011129681 A9	20110602	US20060522263	20060915
US2013171386 AA	20130704	US20130774210	20130222
US8043674 BB	20111025	US20060522263	20060915
WO07046951 A2	20070426	WO2006US33448	20060825
WO07046951 A3	20071101	WO2006US33448	20060825
WO07047133 A1	20070426	WO2006US39005	20061005
WO07047134 A1	20070426	WO2006US39007	20061005

Priority:

US20010791325 20010222 US20020079662 20020220 US20050096298 20050401
US20050248838 20051012 WO2006US33448 20060825 US20060521657 20060915
US20060522263 20060915 CN200680043057 20061005 EP20060816330 20061005
WO2006US39005 20061005 WO2006US39007 20061005 US20090363111 20090130
US20130774210 20130222

Probable Assignee: JINDAL FILMS AMERICAS LLC

Assignee(s): (std): LU PANG CHIA ; KEUNG JAY K M ; EXXONMOBIL OIL CORP ; KEUNG JAY KIN MING ; PELLINGRA SALVATORE J ; KEUNG JAY K ; PELLINGRA SALVATORE JAMES ; AMBROISE BENOIT ; AMBROISE BENOIT ; CRETEKOS GEORGE F ; CRETEKOS GEORGE FORMAN ; JINDAL FILMS AMERICAS LLC ; JINDAL FILMS EUROPE VIRTON SPRL ; REHKUGLER RICHARD A ; SCHOONERMAN RICHARD J ; REHKUGLER RICHARD ALAN ; SCHOONERMAN RICHARD JOHN

Assignee(s): CRITICAL PATH INC ; BANK OF AMERICA NA AGENT AS ; EXXONMOBIL CHEMICAL PATENTS INC ; FILMS AMERICAS LLC ; JPF USA LLC

Inventor(s): (std): AMBROISE BENOIT ; BENOIT AMBROSE ; CRETEKOS GEORGE FORMAN ; LU PANG CHIA ; MING KEUNG JAY KIN ; PELLINGRA SALVATORE JAMES ; REHKUGLER RICHARD ; REHKUGLER RICHARD A ; REHKUGLER RICHARD ALAN ; SCHOONERMAN RICHARD J ; SCHOONERMAN RICHARD JOHN ; PELLINGRA SALVATORE J ; PELLINGRA SALVATORE J ; PELLINGRA SALVATORE J ; PELLINGRA SALVATORE J ; PELLINGRA SALVATORE ; KEUNG JAY KIN MING ; KEUNG JAY K ; CRETEKOS GEORGE F ; CRETEKOS GEORGE ; BENOIT AMBROISE ; AMBROISE BENOIT ; S J PALINGERA ; R A RECKUGLER ; G F CHRISTCAWS ; KEUNG JAY K M

Inventor(s): KEUNG JAY KM ; SCHOONERMAN RICHARD ; KEUNG JAY

Agent(s): BORDEN LADNER GERVAIS LLP; TROCH GENEVIEVE; JOHNSON YVONNE CATHERINE; CARVAJAL Y ISABEL; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; EXXONMOBIL CHEMICAL COMPANY, LAW TECHNOLOGY; EXXONMOBIL CHEMICAL CO LAW TECHNOLOGY; EXXONMOBIL CHEMICAL COMPANY, LAWTECHNOLOGY; EXXONMOBIL CHEMICAL CO LAWTECHNOLOGY; ROBERT L

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE

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Family:

Publication number	Publication date	Application number	Application date
AU2005248405 AA	20051208	AU20050248405	20050524
AU2005248405 BB	20100701	AU20050248405	20050524
CN1957033 A	20070502	CN200580016327	20050524
CN1957033 B	20100616	CN200580016327	20050524
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EP1751231 A1	20070214	EP20050755030	20050524
EP1751231 B1	20110427	EP20050755030	20050524
EP1751231 B2	20151223	EP20050755030	20050524
IN06234DN2006 A	20070831	IN2006DN06234	20061025
JP2008500450 T2	20080110	JP20070527572T	20050524
JP5448339 B2	20140319	JP20070527572T	20050524
KR101206638 B1	20121130	KR20067027141	20050524
KR20070032718 A	20070322	KR20067027141	20050524
US2005266257 AA	20051201	US20050136641	20050524
US2011253296 AA	20111020	US20110165389	20110621
WO05116132 A1	20051208	WO2005US18415	20050524

Priority:

US20040573874 20040524 US20040573874P 20040524 US20050136641 20050524
 WO2005US18415 20050524 US20110165389 20110621

Probable Assignee: E I DU PONT DE NEMOURS AND CO**Assignee(s):** (std): DU PONT ; LEE I HWA ; HAUSMANN KARLHEINZ ; EIDU PONT DE NEMOURS AND CO**Assignee(s):** E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; E I DU PONT DE NEMOURS CO ; E I DUPONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO ; EI DUPONT DE NEMOURS AND CO**Inventor(s):** (std): I HWA LEE ; KARLHEINZ HAUSMANN ; KARLHEINZ LEE I HWA HAUSMANN ; LEE I HWA ; HAUSMANN KARLHEINZ**Inventor(s):** HWA LEE ; LEE I HWA HAUSMANN KARLHEINZ**Agent(s):** HOULIHAN² PTY LTD; HOULIHAN²; HOULIHAN²; HEINEMANN MONICA; KUMAKURA YOSHIO; OGAWA NOBUO; HAKODA ATSUSHI; HIRAYAMA KOJI; ASAI KENJI; E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER**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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**22) Family number: 8521493 (US5445856A)**

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Title: PROTECTIVE MULTILAYER LAMINATE FOR COVERING AN ELECTROCHEMICAL DEVICE

Abstract: A laminate is provided for use as a protective covering for inhibiting penetration of oxygen or oxygen and water therethrough and is particularly suitable for protecting components of an electrochemical cell such as a lithium battery. The laminate comprises an ionomeric polymeric layer for heat sealing layers of the laminate to one another and at least two flexible polymeric layers, one of which may comprise the ionomeric layer; and an oxygen scavenging agent incorporated in one of the flexible polymeric layers or disposed between any two of the flexible polymeric layers. It is preferred that the laminate be insulating as well for inhibiting transport of electricity as well as oxygen and water through the laminate and comprises two or more polymeric layers having, when combined, the characteristics of flexibility, electrical insulation, adhesiveness, and stability to water.

Classifications:**International (IPC 8-9):** B32B27/18 H01G9/08H01M2/02 (Advanced/Invention);
B32B27/18 H01G9/08 H01M2/02 (Core/Invention)**International (IPC 1-7):** B32B1/08 B32B27/20 H01M2/00 H01M2/02**CPC:** H01G9/08 H01M2/0275 Y10T428/1359 Y10T428/24215

Y10T428/25 Y10T428/257 Y10T428/259 Y10T428/2817

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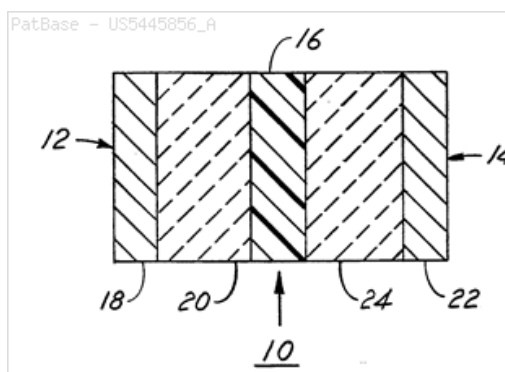
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B32B27/18

European: Y02E60/12**US:** 428/124 428/323 428/329 428/331 428/347 428/35.9 428/402

428/461 429/163

**Family:**

Publication number	Publication date	Application number	Application date
AU199511732 A1	19950529	AU19950011732	19941108
US5445856 A	19950829	US19930150634	19931110
WO9513629 A1	19950518	WO1994US12847	19941108

Priority:

US19930150634 19931110 WO1994US12847 19941108

Probable Assignee: VALENCE TECHNOLOGY INC**Assignee(s):** (std): CHALONER GILL BENJAMIN ; VALENCE TECHNOLOGY INC**Assignee(s):** VALENCE TECHNOLOGY INC

Inventor(s): (std): CHALONER GILL BENJAMIN
Inventor(s): BENJAMIN CHALONER GILL
Designated states: AM AT AU 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 IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN

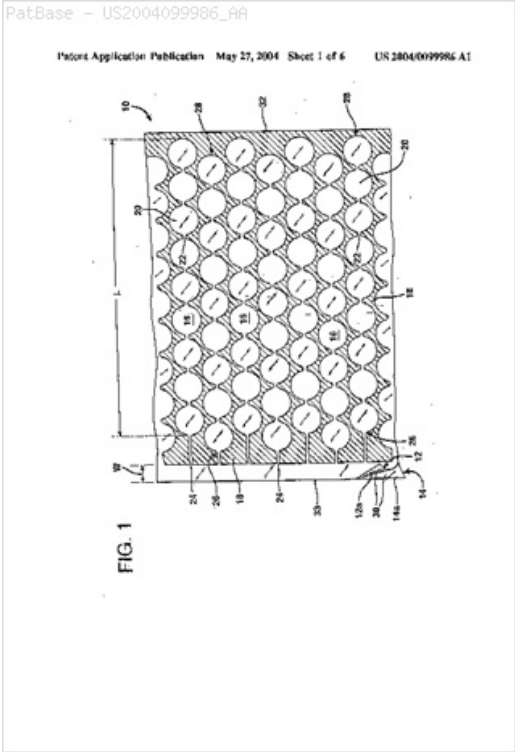
23) Family number: 30583494 (US2004099986A) © PatBase

Title: PROCESS FOR MAKING AND AGING HIGH STRENGTH HIGH GAS BARRIER CELLULAR CUSHIONING PRODUCT

Abstract: An inflatable cushioning article is made by a process of extruding two multilayer films (or extruding one film which is either annular or folded over) each having (a) a seal layer, (b) a tie layer containing an anhydride modified olefin polymer containing anhydride at a level of at least 150 ppm, based on the weight of the modified olefin polymer, and (c) an oxygen barrier layer comprising crystalline polyamide, crystalline polyester, ethylene/vinyl alcohol copolymer, polyacrylonitrile, and/or crystalline polycycloolefin. Selected portions of the films are heat sealed to one another in a selected area providing a heat seal pattern which leaves inflatable chambers between the films, whereby an inflatable cellular cushioning article is produced. At some point after extrusion, at least one of the multilayer films are aged for a time and at a temperature in accordance with at least one member selected from the group consisting of: (i) 141 degrees Fahrenheit to 250 degrees Fahrenheit for a period of at least 1 second; (ii) 101 degrees Fahrenheit to 140 degrees Fahrenheit for a period of at least 10 minutes; (iii) 61 degrees Fahrenheit to 100 degrees Fahrenheit for a period of at least 1 hour; and (iv) 30 degrees Fahrenheit to 60 degrees Fahrenheit for a period of at least 1 day. After aging, the cellular cushioning article is inflated. Preferably, the article is inflated to an internal pressure of at least 1.5 psi.

Classifications:

International (ipc 8-9): B29C47/04 B29C47/06 B31D5/00 B32B27/08 B32B27/28 B32B27/32 B32B3/00 B32B3/28 B32B31/14 B32B37/00 B65D81/03 B65D81/05 (Advanced/Invention); B32B37/04 (Advanced/Non-invention); A63B39/00 B29C47/06 B31D5/00 B32B27/08 B32B3/00 B32B3/28 B65D81/03 (Core/Invention)
International (ipc 1-7): B29C47/04 B29C47/06 B29C65/18 B29D22/00 B32B1/00 B32B27/00 B32B27/08 B32B27/28 B32B27/32 B32B3/12 B32B3/28 B32B31/00 B32B31/20 B32B31/30 B32B37/00 B65D81/03 B65D81/05
CPC: Y10S206/814 Y10S493/967 Y10T428/24496 Y10T428/24661 Y10T428/2929 Y10T428/24562 B32B3/28 B32B37/04 B32B37/065 B32B2553/02 B65D81/03 Y10T428/31855 B32B7/12 B32B27/306 B32B27/32 B32B27/34 B32B27/36 B32B2250/40 B32B2307/7242 B32B2323/046 B32B27/08 B31D5/0073
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US: 156/145 156/244.11 156/290 156/291 206/522 206/814 264/173.14 264/173.140P 264/248 264/248S 428/158 428/166 428/178 428/178P 428/373 428/500 493/967 525/88



Family:

Publication number	Publication date	Application number	Application date
AT352415 E	20070215	AT20030026183T	20031117
AT396044 E	20080615	AT20030026182T	20031117
AU2003262436 AA	20040610	AU20030262436	20031120
AU2004203886 AA	20050317	AU20040203886	20040813
CA2450275 AA	20040522	CA20032450275	20031119
CA2450275 C	20070424	CA20032450275	20031119
CA2450323 AA	20040522	CA20032450323	20031120
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DE60311387 T2	20071108	DE20036011387T	20031117
DE60321110 D1	20080703	DE20036021110	20031117
EP1422056 A1	20040526	EP20030026182	20031117
EP1422056 B1	20080521	EP20030026182	20031117
EP1422057 A1	20040526	EP20030026183	20031117
EP1422057 B1	20070124	EP20030026183	20031117
ES2280672 T3	20070916	ES20030026183T	20031117
ES2305391 T3	20081101	ES20030026182T	20031117
NZ529474 A	20050826	NZ20030529474	20031112
NZ529475 A	20050930	NZ20030529475	20031112
US2004099986 AA	20040527	US20030648015	20030826
US2004101658 AA	20040527	US20020302004	20021122
US2004101659 AA	20040527	US20030648113	20030826
US6982113 BB	20060103	US20020302004	20021122
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Priority:

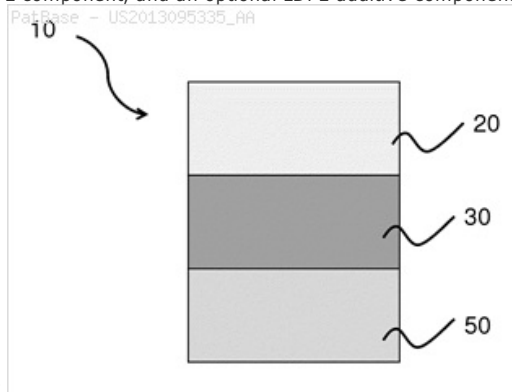
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CA20032450275 20031119 CA20032450323 20031120

Probable Assignee: SEALED AIR CORP**Assignee(s):** (std): SEALED AIR CORP ; SEALED AIR CORP US**Assignee(s):** SEALED AIR US CORP ; KANNANKERIL CHARLES ; METTA MICHAEL ; METTA MIKE ; O DOWD BOB ; O DOWD ROBERT ; SEALED AIR CONDITION**Inventor(s):** (std): O DOWD ROBERT ; O DOWN ROB ; O DOWD BOB ; MIKE METTA ; METTA MIKE ; METTA MICHAEL ; KANNANKERIL CHARLES ; CHARLES KANNANKERIL ; BOB O DOWD**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; UEXKUELL AND STOLBERG; RUPERT B**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR**24) Family number: 53502524** (US2013095335A)

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Title: FILM COMPOSITION FOR CONTROLLED PEELABLE SEAL FILM

Abstract: The present invention provides polymeric film and, more particularly, a multi-layer polymeric film including one or more structural layers of homogenous polypropylene; one or more structural layers of random copolymer polypropylene; one or more anhydride modified polyethylene based tie layers; one or more linear low density polyethylene (LLDPE) blend sealant layers having a primary LLDPE component, a secondary LLDPE component, and an optional LDPE additive component

Classifications:**International (ipc 8-9):** B32B27/08 B32B27/32 B32B7/02 B32B7/06 B32B7/08 B65D65/40 C08L23/04 C08L23/10 (Advanced/Invention)**CPC:** B32B27/327 B32B7/02 B32B7/06 B32B27/08 B32B2250/05 B32B2250/24 B32B2250/242 B32B2250/40 B32B2270/00 B32B2272/00 B32B2274/00 B32B2307/31 B32B2307/54 B32B2307/558 B32B2307/738 B32B2439/00 B32B27/32 B65D65/40 Y10T428/31913**US:** 428/516 428/516
JP F-Term: 3E086 3E086/AA23 3E086/AB01 3E086/AD01 3E086/AD07 3E086/BA15 3E086/BB22 3E086/BB85 3E086/BB90 4F071 4F071/AA15 4F071/AA15/X 4F071/AA16 4F071/AA20 4F071/AA78/X 4F071/AA81/X 4F071/AA82/X 4F071/AA88 4F071/AA88/X 4F071/AF13/Y 4F071/AF19/C 4F071/AF21/Y 4F071/AF23/Y 4F071/BB02 4F071/BB06 4F071/BC01 4F100 4F100/AK04/A 4F100/AK04/C 4F100/AK04/J 4F100/AK05/E 4F100/AK06/D 4F100/AK07/A 4F100/AK07/B 4F100/AK07/J 4F100/AK07/K 4F100/AK63/D 4F100/AL03/A 4F100/AL03/B 4F100/AL05/D 4F100/AL07/C 4F100/AL09/A 4F100/BA04 4F100/BA05 4F100/BA07 4F100/BA10/D 4F100/BA10/E 4F100/BA16 4F100/GB15 4F100/JA06/A 4F100/JA06/B 4F100/JA06/C 4F100/JA06/D 4F100/JA06/E 4F100/JA07/D 4F100/JK06 4F100/JK08 4F100/JK10 4F100/JL00 4F100/JL08/D 4F100/JL11 4F100/JN01 4F100/YY00 4F100/YY00/A 4F100/YY00/B 4F100/YY00/D 4F100/YY00/E 4J002 4J002/BB03/W 4J002/BB03/X 4J002/BB04/X 4F100/AK04/B 4F100/AK06/C 4F100/AK06/E 4F100/AK07/C 4F100/AK07/D 4F100/AK07/E 4F100/AK63/C 4F100/AK63/E 4F100/AK63/K 4F100/AL03/D 4F100/AL09/C 4F100/AL09/E 4F100/BA03 4F100/BA08 4F100/BA10/C 4F100/BA25 4F100/JA13/C 4F100/JL02 4F100/JL13/C 4F100/JL13/E 4F100/YY00/C 4J002/BB03/1 4J002/BB03/2 4J002/BB11/1 4J002/BB12/1 4J002/BB15/1 4J002/GF00**US:** 428/516 428/516**JP F-Term:** 3E086 3E086/AA23 3E086/AB01 3E086/AD01 3E086/AD07 3E086/BA15 3E086/BB22 3E086/BB85 3E086/BB90 4F071 4F071/AA15 4F071/AA15/X 4F071/AA16 4F071/AA20 4F071/AA78/X 4F071/AA81/X 4F071/AA82/X 4F071/AA88 4F071/AA88/X 4F071/AF13/Y 4F071/AF19/C 4F071/AF21/Y 4F071/AF23/Y 4F071/BB02 4F071/BB06 4F071/BC01 4F100 4F100/AK04/A 4F100/AK04/C 4F100/AK04/J 4F100/AK05/E 4F100/AK06/D 4F100/AK07/A 4F100/AK07/B 4F100/AK07/J 4F100/AK07/K 4F100/AK63/D 4F100/AL03/A 4F100/AL03/B 4F100/AL05/D 4F100/AL07/C 4F100/AL09/A 4F100/BA04 4F100/BA05 4F100/BA07 4F100/BA10/D 4F100/BA10/E 4F100/BA16 4F100/GB15 4F100/JA06/A 4F100/JA06/B 4F100/JA06/C 4F100/JA06/D 4F100/JA06/E 4F100/JA07/D 4F100/JK06 4F100/JK08 4F100/JK10 4F100/JL00 4F100/JL08/D 4F100/JL11 4F100/JN01 4F100/YY00 4F100/YY00/A 4F100/YY00/B 4F100/YY00/D 4F100/YY00/E 4J002 4J002/BB03/W 4J002/BB03/X 4J002/BB04/X 4F100/AK04/B 4F100/AK06/C 4F100/AK06/E 4F100/AK07/C 4F100/AK07/D 4F100/AK07/E 4F100/AK63/C 4F100/AK63/E 4F100/AK63/K 4F100/AL03/D 4F100/AL09/C 4F100/AL09/E 4F100/BA03 4F100/BA08 4F100/BA10/C 4F100/BA25 4F100/JA13/C 4F100/JL02 4F100/JL13/C 4F100/JL13/E 4F100/YY00/C 4J002/BB03/1 4J002/BB03/2 4J002/BB11/1 4J002/BB12/1 4J002/BB15/1 4J002/GF00**JP F-Index:** B32B27/32/E B32B27/32/103 B65D65/40/F C08J5/18 C08L23/04 C08L23/10**Family:**

Publication number	Publication date	Application number	Application date
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BR112014009516 A2	20170425	BR20141109516	20121015
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WO13059117 A1	20130425	WO2012US60235	20121015

Priority:

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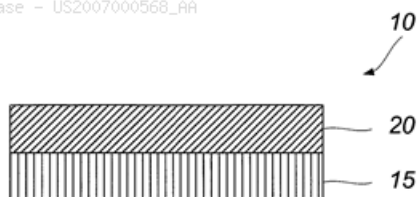
Probable Assignee: BECTON DICKINSON AND CO**Assignee(s):** (std): BECTON DICKINSON CO**Assignee(s):** BECTON DICKINSON AND CO ; BECTON DICKINSON AND COMPANY**Inventor(s):** (std): HERMEL DAVIDOCK THERESA ; THERESA HERMEL DAVIDOCK**Agent(s):** VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN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

Title: PACKAGING MATERIAL FOR FOOD ITEMS CONTAINING PERMEATING OILS**Abstract:** A packaging material for oily or greasy food items includes one or more features for resisting penetration, masking penetration, or for a combination of resisting and masking penetration by the oily or greasy substance.**Classifications:****International (IPC 8-9):** B05D1/36 B29C65/00 B29C65/10 B29C65/26 B29C65/78 B31B35/00 B31B70/02 B31B70/26 B31B70/64 B32B27/00 B32B27/08 B32B27/10 B32B27/12 B32B27/20 B32B27/30 B32B27/32 B32B27/36 B32B29/00 B32B5/02 B32B5/22 B32B5/26 B32B7/12 B65B1/04 B65B47/02 B65B49/02 B65B51/00 B65B51/02 B65B51/10 B65B51/12 B65B7/14 B65D30/04 B65D30/08 B65D33/08 B65D33/10 B65D33/30 B65D53/00 B65D65/40 B65D75/30 B65D81/26 C09J7/02 C09J7/04 D03D15/00 D03D9/00 D21H17/67 D21H19/38 (Advanced/Invention); B29K105/00 B29K105/04 B29K23/00 B29L9/00 (Advanced/Non-invention);

B05D1/36 B32B27/00 B32B27/10 B32B27/20 B65B1/04 B65D65/40 B65D81/26 C09J7/02 C09J7/04 D21H17/00 D21H19/00 (Core/Invention)

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PatBase - US2007000568_AR

**Family:**

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Priority:

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Probable Assignee: GRAPHIC PACKAGING INT INC**Assignee(s):** (std): BECKSTROM SCOTT ; BOHME REINHARD D ; FILES JOHN C ; GRAPHIC PACKAGING INTERNATIONAL ; GRAPHIC PACKAGING INT INC ; FILES JOHN CAMERON ; MOSER DAVID ; GRAPHIC FLEXIBLE PACKAGING LLC**Assignee(s):** RESEARCH IN MOTION LTD ; GRAPHIC PACKAGING INT LLC ; GRAPHIC PACKAGING INT ; GRAPHIC PACKAGING INTERNATIONAL INC ; BLUEGRASS CVI PACKAGING CO LLC ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS**Inventor(s):** (std): FILES JOHN CAMERON ; MOSER DAVID ; BECKSTROM SCOTT ; FILES JOHN C ; BOHME REINHARD D**Inventor(s):** BOHME REINHARD ; FILES JOHN**Agent(s):** MACRAE AND CO; GRAETTINGER AND PARTNER (GBR); FUJINO IKUO; TAKANASHI NORIMICHI; KATO NOBUAKI; OCHI TAKAO; OKABE MASAO; USUI SHINICHI; OKABE YUZURU; WOMBLE CARLYLE SANDRIDGE AND RICE PLLC; WOMBLE CARLYLE SANDRIDGE AND RICE LLP; ISAF LOUIS T ET AL; STANO DANA E 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**26) Family number: 18058579 (US4777073A)**

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Title: BREATHABLE FILMS PREPARED FROM MELT EMBOSSED POLYOLEFIN/FILLER PRECURSOR FILMS**Abstract:** A breathable polyolefin film is prepared by melt embossing a highly filled polyolefin film to impose a pattern of different film thickness therein and by stretching the melt embossed film to impart greater permeability in the areas of reduced thickness in comparison to the areas of greater thickness.**Classifications:****International (IPC 8-9):** B29B11/10 B29C49/00 B29C55/00 B29C55/02 B29C55/04 B29C55/12 B29C57/00 B29C59/00 B29C59/04 B29C67/20 B29C71/02 B29D7/00 B29D7/01 B32B15/085 B32B27/06 B32B27/12 B32B27/18 B32B27/32 B32B3/26 B32B5/18 C08J5/18 C08J7/04 C08J9/00 C23C14/20 (Advanced/Invention); B29C49/00 B29C55/00 B29C59/00 B29C59/04 B29C67/20 B29C71/02 B29K105/04 B29K105/16 B29K23/00 B29L9/00 B32B27/18 B32B5/18 C08J9/00 C23C14/20 (Advanced/Non-invention); B29C67/20 B29D7/00 C08J5/18 C08J7/00 C08J9/00 (Core/Invention); B29C49/00 B29C55/00 B29C59/00 B29C59/04 B29C71/02 (Core/Non-invention)**International (IPC 1-7):** B23B27/12 B29B11/10 B29C47/00 B29C55/02 B29C55/12 B29C57/00 B29C59/00 B29C67/20 B29C69/00 B29D7/00 B29D7/01 B29D7/24 B29D9/00 B29D9/00 B29K105/04 B29K105/16 B29K23/00 B29L9/00 B31F1/20 B32B15/08 B32B15/08 B32B27/06 B32B27/06 B32B27/12 B32B27/18 B32B27/20 B32B27/32 B32B3/02 B32B3/12 B32B3/26 B32B5/18 B32B5/22 B32B5/24 B32B5/30 C08J5/18 C23C14/20 D02J1/06**CPIC:** Y10S428/91 Y10S264/62 C08J7/045 B29C55/04 B29C55/12 B29C59/04 B29K2023/00 C08J5/18 B29C49/00 B29C55/00 B29C59/00 B29C71/02 B29K2023/06 B29K2105/16 B29K2995/0065 C08J2323/02 Y10T428/24471 Y10T428/24504 Y10T428/31 Y10T156/1023 Y10T156/1039 Y10T428/2991 Y10T428/249986 Y10T428/31678 Y10T428/31692 B32B5/022 B32B27/20 B32B27/32 B32B2307/31 B32B2307/724 B32B2323/046 B32B27/12 B29D7/01**European:** B29C55/04 B29C55/12 B29D7/01 B32B27/12 C08J5/18 C08J7/04D1 L29C49/00 L29C55/00 L29C59/00 L29C59/04 L29C71/02 L29K105/16 L29K23/00 L29K23/06 L29K995/00F16 M08J323/02**US:** 156/209 156/219 156/244.11 156/244.24 156/309.6 156/309.9 264/171 264/173.1 264/284 264/288.4 264/288.8 264/DIG.62 428/155 428/159 428/317.9 428/403 428/409 428/457 428/461 428/698 428/910**JP F-Term:** 4F100 4F100/AA07/H 4F100/AA08/A 4F100/AA08/H 4F100/AA18/H 4F100/AA19/H 4F100/AA20/H 4F100/AA21/H 4F100/AA25/H 4F100/AC03/H 4F100/AC04/H 4F100/AC05/H 4F100/AC10/H 4F100/AG00/H 4F100/AJ04/H 4F100/AK03/A 4F100/AK04 4F100/AK05/B 4F100/AK07/B 4F100/AK47 4F100/AK62/A 4F100/AK63/B 4F100/AK68/C 4F100/AL05 4F100/AL09 4F100/AP00/H 4F100/BA02 4F100/BA03 4F100/BA07 4F100/BA10/A 4F100/BA10/B 4F100/BA15 4F100/CA05 4F100/CA13 4F100/CA22 4F100/CA23/A 4F100/CB00 4F100/DC16/B 4F100/DE01/H 4F100/DG06/B 4F100/DG07/B 4F100/DG15/B 4F100/DJ06/A 4F100/GA03 4F100/GA05 4F100/GA20 4F100/GA22 4F100/GA23 4F100/GA24 4F100/GB07 4F100/GB15 4F100/GB56 4F100/GB66 4F100/GB71 4F100/GB72 4F100/HA05 4F100/HB21 4F100/JA06 4F100/JB06 4F100/JD01 4F100/JD02/A 4F100/JD04/A 4F100/JD05 4F100/JK02 4F100/JK03 4F100/JK08 4F100/JK17 4F100/JL00 4F100/JL08 4F100/JL12/C 4F100/YY00 4F100/YY00/A 4F100/YY00/B 4F001 4F100/AA33/A 4F100/AA33/H 4F100/AB01/B 4F100/AB10/B 4F100/AK07 4F100/AK09 4F100/AK63 4F100/BA41 4F100/BA42 4F100/BA45 4F100/DD32/A 4F100/DJ06 4F100/EA06/1 4F100/EB01/1 4F100/EB09/2 4F100/ED27/1 4F100/ED28 4F100/ED29/1 4F100/ED30/1 4F100/ED32/1 4F100/EG00 4F100/EH17/1 4F100/EH66/2 4F100/EJ37/1 4F100/EJ38 4F100/EJ39/1 4F100/EJ40/1 4F100/EJ42/1 4F100/GA15 4F100/GA29 4F100/GB41 4F100/GB87 4F100/HA10/A 4F100/HB40/A 4F100/JD02 4F100/JD06 4F100/JE09 4F100/JG03 4F100/JL03 4F100/JN21 4F201 4F201/AA03 4F201/AB11 4F201/AG01 4F201/BA03 4F201/BC01 4F201/BC02 4F201/BC13 4F201/BC37 4F201/BD05 4F201/BD10 4F201/BM06 4F201/BM13 4F210 4F210/AA03 4F210/AA04/E 4F210/AA08 4F210/AA12/E 4F210/AB11 4F210/AB16 4F210/AB28 4F210/AD03 4F210/AE10 4F210/AF01 4F210/AG01 4F210/AH33 4F210/AH59 4F210/AH66 4F210/AH81 4F210/QA02 4F210/QC05 4F210/QG01 4F210/QG18 4F210/QL01 4F210/QW07 4K029 4K029/AA11 4K029/AA25 4K029/BA03 4K029/BC00 4F074 4F074/AA16 4F074/AA21 4F074/AC26 4F074/AD10 4F074/AE06 4F074/AF03 4F074/AG01 4F074/CA01 4F074/CA02 4F074/CA06 4F074/CA07 4F074/CC04 4F074/CC08 4F074/DA08 4F074/DA10 4F074/DA33 4F074/DA37 4F074/DA38 4F074/DA43 4F074/DA53 4F212 4F212/AA03 4F212/AA04 4F212/AA08 4F212/AA11 4F212/AB11 4F212/AB16 4F212/AB28 4F212/AE10 4F212/AG01 4F212/AH03 4F212/AH63 4F212/AH66 4F212/AH67 4F212/AH81 4F212/UA15 4F212/UB02 4F212/UW06 4F212/UW10 4F212/UW26**JP F-Index:** B32B27/12 B32B27/18/D B32B27/18/Z B29B11/10 B29C55/12 B29L9/00 B32B15/08/103/A B32B15/08/103/Z B32B15/085/A B32B15/085/Z B32B5/18 C23C14/20 C23C14/20/A B29C67/20/B B29C67/20/P C08J9/00/A**Family:**

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Priority:

US19870024503 19870311 US19870101118 19870925 CA19880560718 19880307
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Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXON CHEMICAL PATENTS INC ; EXXON MOBIL CORP ; SHETH PARESH J

Assignee(s): SHETH PARESH JASWANTLAL ; THOMPSON FRANCIS MURPHY ; EXXON CHEMICAL PATENTS INC A CORP OF DE ; EXXON CHEMICAL PATENTS INC A CORP OF DELAWARE ; EXXON CHEMICAL PATENTS INC A DE CORP ; EXXON CHEMICAL PATENTS INC LINDEN N J US ; EXXON CHEMICAL PATENTS INC FLORHAM PARK N J US ; EXXON CHEM PATENTS INC

Inventor(s): (std): PARETSUSHIYU JIYASUWANTORERU S ; SHETH PARESH JASWANTLAL ; SHETH PARESH J ; PARETSUSHIYU JIYASUWANTORARU S ; PARESHIYU JIYASUBENTORARU SHIISU ; PARESH JASWANTLAL SHETH ; FURANSHISU MAAFUII TONPUSON ; FRANCIS MURPHY THOMPSON ; PARESHIYU JIYASUBENTORARU SHII ; THOMPSON FRANCIS MURPHY ; THOMPSON FRANCIS M

Inventor(s): SHETH PARESH JASWANTLAL SUGARLAND TEXAS 77478 US ; PARETSUSHIYU JIYASUWANTORERU SHIISU ; PARETSUSHIYU JIYASUWANTORARU SHIISU ; THOMPSON FRANCIS MURPHY WHITEHOUSE STATION NEW... ; THOMPSON FRANCIS MURPHY WHITEHOUSE STATION NEW JERSEY 08889 US ; THOMPSON FRANCIS MURPHY WHITEHOUSE STATION NEW JER

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP

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

27) Family number: 43358587 (US2010255232A)

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Title: POLYPROPYLENE MELT-BLOWN SEALANT FILMS FOR RETORT PACKAGING

Abstract: A polypropylene containing resin composition suitable for use in forming films by the air quenched melt-blown film process for use as a sealing layer in a laminate for retort pouches, The resin composition includes from 80 to 98 percent by weight of a coupled impact propylene copolymer and from 2 to 20 percent by weight of a propylene-ethylene copolymer having from 2 to 10 percent by weight units derived from ethylene, wherein the composition has a melt flow rate of from 0.1 to 2.5 grams/10 minutes.

Classifications:

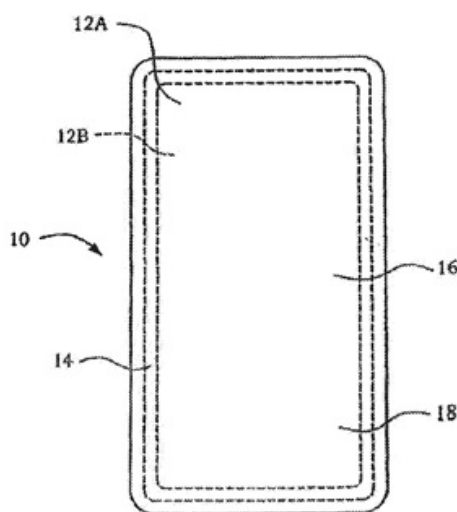
International (IPC 8-9): B32B1/00 C08J5/18 C08L23/08 C08L23/10 C08L23/12 C08L23/14 (Advanced/Invention); C08L23/08 (Advanced/Non-invention); C08J5/18 C08L23/00 (Core/Invention)

International (IPC 1-7): C08J5/18 C08L23/10 C08L23/12 C08L23/14 **CPC:** C08L23/12 C08J5/18 C08J2323/10 C08J2323/12 C08L23/0815 C08L23/10 C08L23/142 C08L2666/06 Y10T428/1334

European: C08J5/18 C08L23/10 C08L23/12 C08L23/14A M08J323/10 M08J323/12 M08L23/08A1 M08L23/12

US: 1/1 428/35.2 428/35.200P 525/240 525/240S

PatBase - US2010255232_AA



Family:

Publication number	Publication date	Application number	Application date
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PatBase PDF Export - Page: 29 12/12/2018

Family:

Publication number	Publication date	Application number	Application date
CA2363111 AA	20010814	CA20002363111	20001218
CA2363111 C	20101109	CA20002363111	20001218
CA2698723 AA	20010621	CA20002698723	20001218
CA2698723 C	20130122	CA20002698723	20001218
CN1193442 C	20050316	CN20008006337	20001218
CN1347573 A	20020501	CN20008006337	20001218
DE60048110 D1	20130829	DE20006048110	20001218
EP1160892 A1	20011205	EP20000981805	20001218
EP1160892 A4	20050601	EP20000981805	20001218
EP1160892 B1	20130703	EP20000981805	20001218
JP2001176460 A2	20010629	JP19990358229	19991217
JP2001202927 A2	20010727	JP20000011402	20000120
JP2001202928 A2	20010727	JP20000011422	20000120
JP2001229885 A2	20010824	JP20000037598	20000216
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JP2001229887 A2	20010824	JP20000037676	20000216
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JP4620203 B2	20110126	JP20000011422	20000120
JP4620232 B2	20110126	JP20000283564	20000919
JP4620233 B2	20110126	JP20000283651	20000919
JP4769994 B2	20110907	JP20000037676	20000216
JP4867063 B2	20120201	JP19990358229	19991217
JP5187370 B2	20130424	JP20100214934	20100927
JP5413341 B2	20140212	JP20100214897	20100927
KR100705070 B1	20070406	KR20017010231	20001218
KR20010102093 A	20011115	KR20017010231	20001218
TW521035 B	20030221	TW20000127016	20001216
US2002142178 AA	20021003	US20010913501	20010815
US2006172191 AA	20060803	US20060378235	20060320
US2012034477 AA	20120209	US20110275918	20111018
US2012258353 AA	20121011	US20120495740	20120613
US2018123090 AA	20180503	US20170855617	20171227
US7048822 BB	20060523	US20010913501	20010815
US8067113 BB	20111129	US20060378235	20060320
US9537120 BB	20170103	US20120495740	20120613
US9865846 BB	20180109	US20110275918	20111018
WO0145183 A1	20010621	WO2000JP08959	20001218

Priority:

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US20110275918	20111018	US20120495740	20120613	US20170855617	20171227

Probable Assignee: DAINIPPON PRINTING CO LTD

Assignee(s): (std): OKUSHITA MASATAKA ; YAMADA KAZUKI ; YAMASHITA RIKIYA ; MIYAMA HIROSHI ; MOCHIZUKI YOUICHI ; DAINIPPON PRINTING CO LTD ; YAMASHITA TAKANORI ; YAMASHITA RIKIYAMA ; DAI NIPPON PRINTING CO LTD

Assignee(s): DAINIPPON PRINTING CO ; DAI NIPPON PRINTING CO

Inventor(s): (std): KAZUKI YAMADA ; MASATAKA OKUSHITA ; MIYAMA HIROSHI ; MIYAMA HIROSHI AND ; MOCHIZUKI YOUICHI ; OKUSHITA MASATAKA ; TAKANORI YAMASHITA ; YAMADA KAZUKI ; YAMASHITA RIKIYA ; YAMASHITA RIKIYAMA ; YAMASHITA TAKANORI ; MOCHIZUKI YOICHI

Inventor(s): MIYAMA HIROSHI DAI NIPPON PRINTING CO LTD ; YAMASHITA TAKANORI DAI NIPPON PRINTING CO LTD ; YAMASHITA RIKIYA DAI NIPPON PRINTING CO LTD ; YAMADA KAZUKI DAI NIPPON PRINTING CO LTD ; OKUSHITA MASATAKA DAI NIPPON PRINTING CO LTD ; MOCHIZUKI YOUICHI DAI NIPPON PRINTING CO LTD

Agent(s): MACRAE AND CO; MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; MUELLER BORE AND PARTNER PATENTANWAELTE; OLIFF AND BERRIDGE PLC; OLIFF PLC

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

29) Family number: 23321661 (WO9834844A1)

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Title: POUCHES FOR PACKAGING FLOWABLE MATERIALS

Abstract: An environmentally friendly polymer film pouch made from a polyethylene film structure for the packaging of flowable materials, for example milk, including, for example, a pouch made from a monolayer or multilayer film structure such as a two-layer or a three-layer coextruded film containing at least one layer of a blend of a linear ethylene interpolymer and a high pressure low density polyethylene as a seal layer. Also disclosed is a process for making a pouch for packaging flowable materials using a film structure of a blend of a linear ethylene interpolymer and a high pressure low density polyethylene.

Classifications:

International (IPC 8-9): B32B27/32 B65D30/02 B65D30/08 B65D30/16 B65D33/00 B65D65/38 B65D85/80 C08J5/18 C08L23/04 C08L23/06 C08L23/08 (Advanced/Invention); B32B27/32 B65D30/02 B65D33/00 (Advanced/Non-invention); B32B27/32 B65D30/02 B65D30/08 B65D30/16 B65D33/00 B65D65/38 B65D85/72 C08J5/18 C08L23/00 (Core/Invention); B65D (Subclass/Invention)

International (IPC 1-7): B32B27/32 B65D B65D30/02 B65D30/16 B65D33/00 B65D65/38 C08J5/18 C08L23/04 C08L23/06 C08L23/08

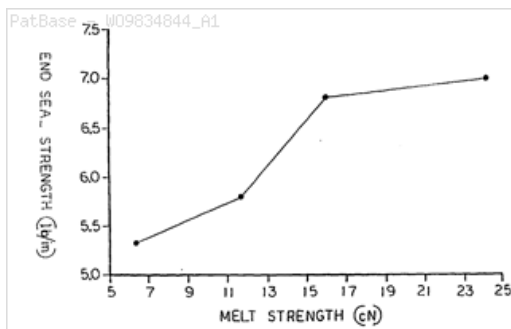
CPC: B65D65/38 B65D33/00

European: B65D65/38

JP F-Term: 3E064 3E064/AA09 3E064/AB23 3E064/BA25 3E064/BA27 3E064/BA29 3E064/BB03 3E064/BC18 3E064/FA04 3E064/FA05 3E064/FA06 3E064/GA06 4F100 4F100/AK04/A 4F100/AK04/C 4F100/AK06/A 4F100/AK62/A 4F100/AK62/B

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JP F-Index: B32B27/32/103 B65D30/02 C08L23/06 C08L23/08

**Family:**

Publication number	Publication date	Application number	Application date
AU199722547 A1	19980826	AU19970022547	19970211
AU742162 B2	20011220	AU19970022547	19970211
BRPI9714503 A	20000321	BR1997PI14503	19970211
CA2280910 AA	19990810	CA19972280910	19970211
CA2280910 C	20040622	CA19972280910	19970211
CN1078160 C	20020123	CN19971081758	19970211
CN1246099 A	20000301	CN19971081758	19970211
DE69737571 D1	20070516	DE19976037571	19970211
DE69737571 T2	20071220	DE19976037571T	19970211
EP0998388 A1	20000510	EP19970905720	19970211
EP0998388 A4	20000510	EP19970905720	19970211
EP0998388 B1	20070404	EP19970905720	19970211
EP0998388 B9	20071003	EP19970905720	19970211
ES2284182 T3	20071101	ES19970905720T	19970211
JP2001512402 T2	20010821	JP19980534271T	19970211
KR20000070945 A	20001125	KR19997007210	19970211
NO326217 B1	20081020	NO19990003840	19990810
NO993840 A	19991008	NO19990003840	19990810
NO993840 A0	19990810	NO19990003840	19990810
NZ336920 A	20010831	NZ19970336920	19970211
RU2187448 C2	20020820	RU19990119586	19970211
RU99119586 A	20020427	RU19990119586	19970211
WO9834844 A1	19980813	WO1997US01671	19970211

Priority:

BR1997PI14503 19970211 CN19971081758 19970211 NZ19970336920 19970211
EP19970905720 19970211 RU19990119586 19970211 WO1997US01671 19970211
NO19990003840 19990810 KR19997007210 19990810

Probable Assignee: DOW GLOBAL TECHNOLOGIES INC

Assignee(s): (std): DOW CHEMICAL CO ; DOW GLOBAL TECHNOLOGIES INC ; DZE DAU KEMIKAL KOMPANI

Assignee(s): THE DOW CHEMICAL COMPANY ; THE DOW CHEMICAL CO ; FALLA DANIEL JAMES

Inventor(s): (std): D J FALLA ; DANIEL JAMES FALLA ; DJ FALLA ; FALLA DANIEL JAMES ; FALLA DEHNIEL DZHEJMS ; FALLA D J

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR

Designated states: AT AU BE BR CA CH CN DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL NO NZ PT RU SE

30) Family number: 9403678 (US5482780A)

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Title: POLYPROPYLENE FILM WITH COLD SEAL RELEASE AND COLD SEAL RECEPTIVE SURFACES

Abstract: An oriented polymeric alpha-olefin film having: an isotactic polypropylene homopolymer core; a cold seal release skin layer adherent to one side of the core; and a surface treated cold seal receptive layer or such treated layer with a cold seal cohesive composition over the surface treatment of said layer on the other side of the core. The cold seal release skin layer comprises a slip agent and a blend of two polymers, namely, an ethylene-propylene random copolymer containing about 2 percent to 8 percent of ethylene in such copolymer and an ethylene-butylene copolymer containing about 0.5 percent to 6 percent of ethylene in such copolymer. The cold seal receptive layer is of an ethylene-propylene random copolymer containing about 2 to 8 percent of ethylene.

Classifications:

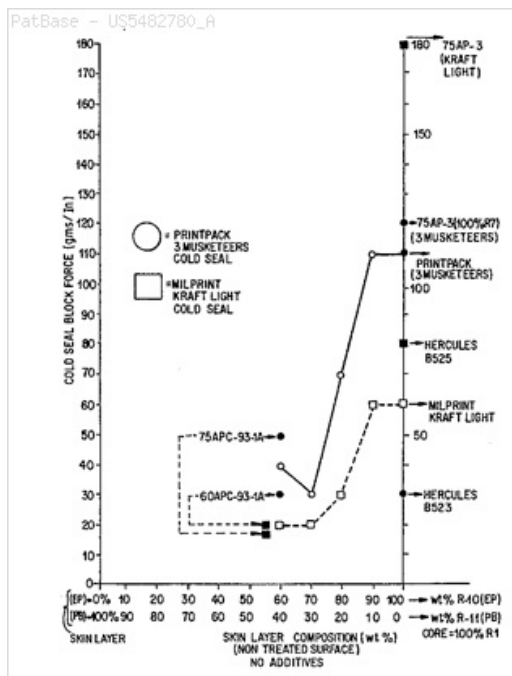
International (IPC 8-9): B29C47/06 B32B27/08 C08L23/12 C08L23/14 C08L23/20 (Advanced/Invention); C08L23/06 (Advanced/Non-invention); B29C47/06 B32B27/08 C08L23/00 (Core/Invention)

International (IPC 1-7): B29C47/06 B32B27/08 B32B27/32 B32B31/16 B65H39/00

CPC: Y10S428/91 Y10T428/24893 Y10T428/25 Y10T428/259 Y10T428/2826 C08L23/06 C08L23/142 C08L23/20 C08L2205/03 C08L2312/00 Y10T428/31663 Y10T428/31667 Y10T428/31855 Y10T428/31909 Y10T428/31913 B32B27/32 B32B2307/518 B32B2323/04 B32B2323/043 B32B2323/10 B32B2439/00 B32B27/08 C08L23/12

European: B32B27/08 C08L23/12 C08L23/14A C08L23/14A+B2 C08L23/20 C08L23/20+B2 M08L205/03 M08L23/06 M08L23/12

M08L23/14A M08L23/20 M08L312/00 M08L53/00
US: 270/52 270/52.01 428/206 428/323 428/331 428/349 428/446
428/447 428/451 428/454 428/500 428/515 428/516 428/910



Family:

Publication number	Publication date	Application number	Application date
CA2117573 AA	19951008	CA19942117573	19940824
CA2117574 AA	19951008	CA19942117574	19940824
US5482780 A	19960109	US19940247830	19940523
US5489473 A	19960206	US19940224229	19940407

Priority:

US19940224229 19940407 US19940247830 19940523 CA19942117573 19940824
CA19942117574 19940824

Probable Assignee: APPLIED EXTRUSION TECHNOLOGIES INC

Assignee(s): (std): BORDEN INC

Assignee(s): GENERAL ELECTRIC CAPITAL CORP ; DDJ CAPITAL MANAGEMENT LLC ; BUTLER MICHAEL D ; WILKIE ANDREW F ; AEP IND ; AEP IND INC ; APPLIED EXTRUSION TECHNOLOGIES INC

Inventor(s): (std): WILKIE ANDREW F ; BUTLER MICHAEL D

Agent(s): MACRAE AND CO

31) Family number: 5388701 (US4765999A)

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Title: POLYESTER/COPOLYESTER COEXTRUDED PACKAGING FILM

Abstract: Multiple layer nonoriented heat sealable films are disclosed having a base substrate layer of poly(ethylene terephthalate) (polyester) or polyester copolymer and at least one heat sealable surface layer of a copolyester. The films are prepared by conventional cast or blown film coextrusion techniques.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/32 B32B27/36
B32B7/02 B32B7/10 B65D65/14 B65D77/20 B65D81/34 C08L67/00
C08L67/02 (Advanced/Invention);
B32B27/08 B32B27/32 B32B27/36 B32B7/02 B32B7/10
B65D81/34 (Core/Invention)

International (IPC 1-7): A23L1/18 B32B27/00 B32B27/08 B32B27/32
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B65D81/34 C08L67/02

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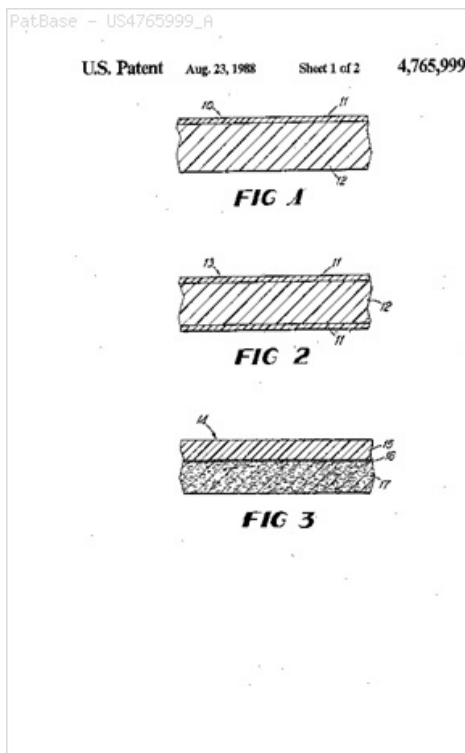
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JP F-Index: B32B27/36 B32B7/02/101 B32B7/10 B65D65/14
 B65D77/20 C08L67/00 C08L67/02

JP Facet: LPA



Family:

Publication number	Publication date	Application number	Application date
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EP0291065 A3	19890607	EP19880107692	19880513
EP0364301 A2	19900418	EP19890310547	19891013
EP0364301 A3	19901128	EP19890310547	19891013
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JP3027938 A2	19910206	JP19890267929	19891013
JP64056548 A2	19890303	JP19880118047	19880514
US4765999 A	19880823	US19850759391	19850726
US4946743 A	19900807	US19880258174	19881014

Priority:

US19850759391 19850726 US19870050166 19870514 US19870067672 19870626
 US19880258174 19881014 CA19890612452 19890922

Probable Assignee: REYNOLDS CONSUMER PRODUCTS INC

Assignee(s): (std): PRESTO PRODUCTS INC ; PURESUTO PROD INC ; REYNOLDS CONSUMER PROD

Assignee(s): REYNOLDS CONSUMER PRODUCTS INC CITY OF APPLETON WI ; REYNOLDS CONSUMER PRODUCTS INC APPLETON WIS US ; WINTER JOHN P ; REYNOLDS CONSUMER PRODUCTS INC CITY OF APPLETON WISCONSIN A CORP OF DELAWARE ; REYNOLDS CONSUMER PRODUCTS INC ; PRESTO PRODUCTS INC A CORP OF WISCONSIN ; COCA COLA CO

Inventor(s): (std): WINTER JOHN P ; JIYON PII UINTAA

Agent(s): CASSAN MACLEAN

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

32) Family number: 46870706 (US2010239796A)

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Title: LAP SEALABLE LAMINATE AND PACKAGING MADE THEREFROM

Abstract: A lap sealable laminate is provided comprised of an oriented polypropylene film layer on one side of the laminate, and a polyolefin elastomer-modified polyethylene sealant film forming an opposing side of the laminate, as well as a flexible pouch formed from the lap sealable laminate.

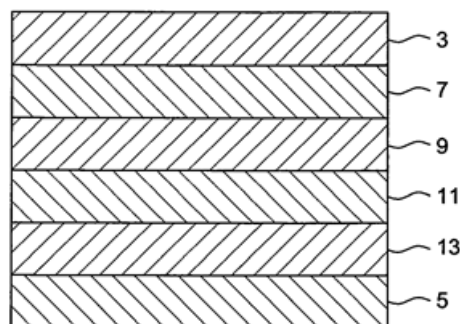
Classifications:

International (IPC 8-9): B32B1/02 B32B27/00 B32B27/08
 B32B27/10 B32B27/30 B32B27/32 B32B27/36 B65D30/02
 B65D65/40 (Advanced/Invention);
 B32B1/00 B32B27/00 B32B27/08 B32B27/10 B32B27/30 B32B27/32
 B32B27/36 B65D30/02 B65D65/40 (Core/Invention)

CPC: Y10T428/1307 Y10T428/1334 Y10T428/1341 B32B27/32
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 Y10T428/31797 Y10T428/31902 Y10T428/31913 Y10T428/31938

European: B32B27/08 B32B27/28 B32B27/32

US: 428/34.3 428/34.300P 428/35.2 428/35.200S 428/35.4
 428/35.400S 428/422 428/422S 428/476.9 428/476.900S 428/483

**Family:**

Publication number	Publication date	Application number	Application date
CA2697441 AA	20100923	CA20102697441	20100322
US2010239796 AA	20100923	US20100724111	20100315

Priority:

US20090202651P 20090323 US20100724111 20100315

Probable Assignee: NEW ENGLAND EXTRUSION INC**Assignee(s):** (std): BOSTIAN DAVID HOYT ; GAGNE JOSEPH DONALD ; NEW ENGLAND EXTRUSION INC**Assignee(s):** US BANK NATIONAL ASSOCIATION ; CHARTER NEX FILMS INC WAS KNOWN AS AMERICAN PLASTICS COMPANY INC AND SUCCESSOR BY MERGER WITH NEW ENGLAND EXTRUSION INC.. ; CHARTER NEX HOLDING CO WAS KNOWN AS NEX PERFORMANCE FILMS INC..**Inventor(s):** (std): BOSTIAN DAVID HOYT ; GAGNE JOSEPH DONALD**Agent(s):** MUNCY GEISSLER OLDS AND LOWE PLLC**33) Family number: 32310723** (US2002155267A)

© PatBase

Title: MULTI-LAYER HERMETICALLY SEALABLE FILM**Abstract:** A thermoplastic multi-layer film for forming hermetic seals on packages comprising layer B comprising polypropylene and a softening additive; and layer C comprising a copolymer.**Classifications:**

International (IPC 8-9): B32B27/06 B32B27/08 B32B27/18 B32B27/32 B32B7/12 B65D65/40 (Advanced/Invention); B32B27/06 B32B27/08 B32B27/18 B32B27/32 B32B7/12 B65D65/40 (Core/Invention)

International (IPC 1-7): B29C55/00 B32B15/08 B32B27/00 B32B27/06 B32B27/08 B32B27/32 B32B7/02 B32B7/12 B65D65/40

CPC: Y10T428/24975 Y10T428/263 Y10T428/265 Y10T428/269 Y10T428/28 Y10T428/2813 Y10T428/2817 Y10T428/2826 Y10T428/2878 Y10T428/31692 Y10T428/31913 Y10T428/31855 Y10T428/31909 Y10T428/31928 Y10T428/31935 Y10T428/31938 B32B27/18 B32B2323/043 B32B2439/70 B32B27/306 B32B2038/0092 B32B2307/746 B32B2323/04 B32B2323/10 B32B2329/04 B32B2439/00 B32B7/12 B32B37/153 B32B2307/31 B32B2307/518 B32B2307/7242 B32B2439/40 B32B27/08 B32B27/06 B32B27/32

European: B32B27/06 B32B27/08 B32B27/32

US: 264/173.14 264/173.140S 264/173.15 264/173.150S 428/216 428/216P 428/22 428/220 428/220S 428/334 428/336 428/339 428/343 428/346 428/347 428/349 428/349P 428/355EN 428/461 428/461S 428/500 428/515 428/515S 428/516 428/516S 428/520 428/522 428/523 428/91 428/910 428/910S

JP F-Term: 3E086 3E086/AB01 3E086/AB02 3E086/AD01 3E086/AD30 3E086/BA04 3E086/BA15 3E086/BA24 3E086/BA33 3E086/BB01 3E086/CA01 3E086/DA01 4F100 4F100/AK02/A 4F100/AK02/H 4F100/AK04/B 4F100/AK04/J 4F100/AK05/C 4F100/AK07/A 4F100/AK07/J 4F100/AK09/B 4F100/AK09/J 4F100/AK64/A 4F100/AK64/B 4F100/AK64/H 4F100/AK80/A 4F100/AK80/B 4F100/AK80/J 4F100/AL01/B 4F100/BA03 4F100/BA07 4F100/BA10/B 4F100/BA10/C 4F100/BA15 4F100/BA25 4F100/CA04/A 4F100/EJ55 4F100/EJ61 4F100/GB15 4F100/JB16/A 4F100/JB16/H 4F100/YY00/A

JP F-Index: B32B27/32/E B65D65/40/D

PatBase - W005097492_A1

**Family:**

Publication number	Publication date	Application number	Application date
AU2002253941 AA	20020912	AU20020253941	20020214
CA2436024 AA	20030723	CA20022436024	20020214
CA2561598 AA	20060928	CA20052561598	20050401
CA2561598 C	20110607	CA20052561598	20050401
DE602005042831 D1	20140417	DE200560042831T	20050401
EP1372955 A2	20040102	EP20020723142	20020214
EP1735150 A1	20061227	EP20050732451	20050401

EP1735150 B1	20140305	EP20050732451	20050401
ES2460958 T3	20140516	ES20050732451T	20050401
JP2004526592 T2	20040902	JP20020567530T	20020214
US2002155267 AA	20021024	US20010791325	20010222
US2002164470 AA	20021107	US20020079662	20020220
US2005238874 AA	20051027	US20050096298	20050401
US7537829 BB	20090526	US20050096298	20050401
WO02068190 A2	20020906	WO2002US04198	20020214
WO02068190 A3	20030206	WO2002US04198	20020214
WO05097492 A1	20051020	WO2005US11114	20050401

Priority:

US20010791325	20010222	WO2002US04198	20020214	US20020079662	20020220
US20040559369P	20040402	EP20050732451	20050401	WO2005US11114	20050401
US20050096298	20050401				

Probable Assignee: JINDAL FILMS AMERICAS LLC

Assignee(s): (std): BADER MICHAEL J ; BADER MICHAEL JOHN ; EXXONMOBIL OIL CORP ; PELLINGRA SALVATORE J JR ; PELLINGRA JR SALVATORE J ; JINDAL FILMS AMERICAS LLC

Assignee(s): JINDAL FILMS AMERICAS LLC MACEDON ; FILMS AMERICAS LLC ; JPF USA LLC ; PELLINGRA JR ; MOBIL OIL CORP ; BANK OF AMERICA NA AGENT AS ; EXXONMOBIL OIL CO

Inventor(s): (std): PELLINGRA JR ; PELLINGRA JR SALVATORE J ; PELLINGRA SALVATORE J JR ; BADER MICHAEL ; BADER MICHAEL JOHN ; BADER MICHAEL J

Inventor(s): PELLINGRA SALVATORE J ; PELLINGRA SALVATORE ; PELLINGRA SALVATORE JJR ; PELLINGRA JR SALVATORE J WOLCOTT ; BADER MICHAEL J FAIRPORT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; SAMSON AND PARTNER PATENTANWAELTE MBB; WIGHTMAN DAVID ALEXANDER; ARIAS JUAN; YAMASAKI YUKUZO; AKAMATSU TOSHIKI; SHIROGANE HIROSHI; SUGIYAMA NAOTO; HOSHI TAKAKO; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO

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

34) Family number: 28173761 (US2002015810A) © PatBase

Title: ORIENTED COOK-IN FILM WITH GOOD INTERPLY ADHESION

Abstract: A multilayer film suitable for cook-in end use includes an outer layer that includes a homo- or co-polymer of propylene and, directly adhered to the outer layer, a layer that includes at least one of: (a) an ethylene/alkyl acrylate copolymer having a high melting point, (b) propylene/alpha-olefin copolymer having a lower propylene mer content than the outer layer and having a high Vicat softening point, and (c) an ethylene/vinyl acetate copolymer with at least 15 percent vinyl acetate mer content. The film exhibits good seal strength and good adhesion between the two layers, even in areas where the film is sealed, even after the film is oriented, even when the film is subjected to the elevated temperatures involved in cook-in procedures, and even where the film is subjected to, e.g., grease from fatty foods. The film also can include one or more other layers including, for example, bulk layers, O2-barrier layers, and/or abuse layers.

Classifications:
International (IPC 8-9): B32B27/30 B32B27/32 B65D65/40 B65D81/34 (Advanced/Invention)
International (IPC 1-7): B32B27/08 B32B27/30 B32B27/32 B32B27/34 B65D65/40
CPC: Y10S428/91 B65D81/3415 Y10T428/1341 Y10T428/1352 Y10T428/1383 Y10T428/139 Y10T428/31743 Y10T428/31746 Y10T428/3175 Y10T428/31757 Y10T428/31797 Y10T428/31909 Y10T428/31913 Y10T428/31917 Y10T428/3192 Y10T428/31928 B32B27/306 B32B27/08 B32B27/304 B32B27/308 B32B27/34 B32B27/36 B32B27/365 B32B2250/40 B32B2367/00 B32B2369/00 B32B2377/00 B32B27/30 B32B27/32
European: B32B27/30 B32B27/32 B65D65/40 B65D81/34B L65D81/34B
US: 428/35.4 428/35.400P 428/35.7 428/357 428/36.7 428/36.9 428/367 428/369 428/475.8 428/475.800S 428/476.1 428/476.100S 428/476.3 428/476.300S 428/476.9 428/476.900S 428/483 428/483S 428/515 428/516 428/516S 428/517 428/517S 428/518 428/518S 428/52 428/520 428/520S 428/910



Family:

Publication number	Publication date	Application number	Application date
AT339306 E	20061015	AT20000916676T	20000330
AU200037744 A1	20001016	AU20000037744	20000330
AU200037744 A5	20001016	AU20000037744	20000330
AU769630 B2	20040129	AU20000037744	20000330
CA2366445 AA	20010920	CA20002366445	20000330

CA2366445 C	20041102	CA20002366445	20000330
DE60030706 D1	20061026	DE20006030706T	20000330
DE60030706 D1	20061026	DE20006030706	20000330
DE60030706 T2	20070906	DE20006030706T	20000330
EP1173329 A1	20020123	EP20000916676	20000330
EP1173329 B1	20060913	EP20000916676	20000330
EP1522501 A2	20050413	EP20040030211	20000330
EP1522501 A3	20060405	EP20040030211	20000330
ES2270820 T3	20070416	ES20000916676T	20000330
NZ514245 A	20031031	NZ20000514245	20000330
US2002015810 AA	20020207	US20010921848	20010803
US6294264 BA	20010925	US19990281419	19990330
US6551674 BB	20030422	US20010921848	20010803
WO0058093 A1	20001005	WO2000US08468	20000330

Priority:

US19990281419 19990330 EP20000916676 20000330 WO2000US08468 20000330
US20010921848 20010803

Probable Assignee: CRYOVAC INC

Assignee(s): (std): CRYOVAC INC ; PIPER GRAHAM RICHARD ; RAMESH RAM KUMAR

Inventor(s): (std): GRAHAM RICHARD PIPER ; RAM KUMAR RAMESH ; RAMESH RAM KUMAR ; RAMESH KUMAR ; PIPER RICHARD ; PIPER GRAHAM RICHARD

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

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

35) Family number: 12724765 (US2004048086A)

© PatBase

Title: FILMS HAVING ENHANCED SEALING CHARACTERISTICS AND PACKAGES CONTAINING SAME

Abstract: Films containing a sealant layer composition comprising: (1) polyethylene homopolymer, and ethylene/alpha-olefin copolymer, ethylene vinyl acetate copolymer, and ethylene/acrylate copolymer; and (2) elastomer, plastomer, ionomer, and carboxyl-modified polyethylene; when sealed to another outer film layer comprising at least one member selected from the group consisting of ionomer, ethylene/acid copolymer, ethylene/vinyl acetate copolymer and ethylene/acrylate copolymer, have been discovered to provide a seal strength comparable to an ionomer to ionomer seal.

Classifications:

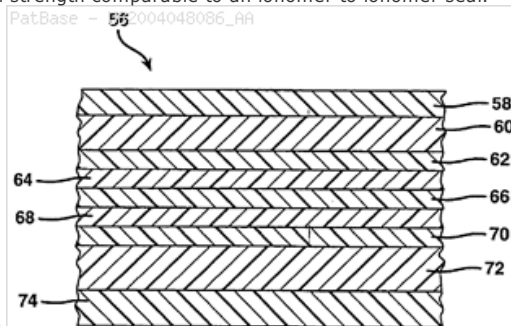
International (IPC 8-9): B32B27/08 B32B27/28 B32B27/30 B32B27/32 B32B7/12 B65D65/40 B65D75/00 B65D75/30 B65D75/32 B65D75/34 B65D75/44 B65D77/18 C08J5/18 (Advanced/Invention); B65D75/00 B65D75/30 B65D75/34 B65D75/44 B65D77/18 (Advanced/Non-invention); B32B27/28 (Core/Invention)

International (IPC 1-7): B32B27/06 B32B27/08 B32B27/32 B65D65/40 B65D75/30 B65D81/34 C08F210/00 C08F210/16 C08J5/18

CPC: Y10T428/1352 Y10T428/2495 Y10T428/269 Y10T428/2817 Y10T428/2826 Y10T428/2852 Y10T428/2878 Y10T428/2891 B65D75/002 B65D75/30 B65D75/34 B65D75/44 B65D77/18 C08J5/18 C08J2323/02 Y10T428/31504 Y10T428/31855 Y10T428/31909 Y10T428/31913 Y10T428/31917 Y10T428/31928 Y10T428/31935 Y10T428/31938 B32B27/306 B32B27/308 B32B27/32 B32B2307/718 B32B2307/7244 B32B2307/736 B32B2309/02 B32B2309/105 B32B2323/046 B32B2439/70 B32B27/08 B65D75/32

European: B32B27/08 B65D75/32 C08J5/18 L65D75/00B L65D75/30 L65D75/32 L65D75/34 L65D75/44 L65D77/18 M08J323/02

US: 428/213 428/335EN 428/339 428/339S 428/347 428/349 428/349S 428/35.7 428/35.700P 428/355.0AC 428/355.0EN 428/355AC 428/355EN 428/355R 428/411.1 428/411.100S 428/500 428/515 428/515S 428/516 428/516S 428/517 428/517P 428/520 428/522 428/522S 428/523 428/523S



Family:

Publication number	Publication date	Application number	Application date
AT187684 E	20000115	AT19950303860T	19950606
AT344134 E	20061115	AT19950102796T	19950606
AU199520515 A1	19951214	AU19950020515	19950606
AU704335 B2	19990422	AU19950020515	19950606
BRPI9502690 A	19960416	BR1995PI02690	19950606
CA2151025 AA	19951207	CA19952151025	19950605
CA2151025 C	20071023	CA19952151025	19950605
CA2553417 AA	19951207	CA19952553417	19950605
CA2553417 C	20081118	CA19952553417	19950605
DE69513885 D1	20000120	DE19956013885	19950606
DE69513885 T2	20000727	DE19956013885T	19950606
DE69535285 D1	20061214	DE19956035285	19950606
DE69535285 T2	20070606	DE19956035285T	19950606
EP0686497 A2	19951213	EP19950303860	19950606
EP0686497 A3	19960306	EP19950303860	19950606
EP0686497 B1	19991215	EP19950303860	19950606
EP0924062 A2	19990623	EP19990102796	19950606
EP0924062 A3	19990707	EP19990102796	19950606
EP0924062 B1	20061102	EP19990102796	19950606
ES2141302 T3	20000316	ES19950303860T	19950606
ES2274589 T3	20070516	ES19990102796T	19950606

WO03067561 A1	20030814	WO2003JP01069	20030203
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Priority:

JP20020027119 20020204 EP20030703148 20030203 EP20100182656 20030203
JP20030026085 20030203 WO2003JP01069 20030203

Probable Assignee: YUPO CORP

Assignee(s): (std): KOIKE HIROSHI ; NISHIZAWA TAKATOSHI ; YUPO CORP

Inventor(s): (std): HIROSHI NISHIZAWA TAKATOSHI KO ; KOIKE HIROSHI ; NISHIZAWA TAKATOSHI ; TAKATOSHI NISHIZAWA ; HIROSHI KOIKE

Inventor(s): NISHIZAWA TAKATOSHI KOIKE HIROSHI ; NISHIZAWA TAKATOSHI C O YUPO CORPORATION ; NISHIZAWA TAKATOSHI C O YUPO CORP ; KOIKE HIROSHI C O YUPO CORPORATION ; KOIKE HIROSHI C O YUPO CORP

Agent(s): ZIMMERMANN AND PARTNER PATENTANWALTE MBB; ZIMMERMANN GERD HEINRICH; ZIMMERMANN AND PARTNER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT 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 OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

37) Family number: 30417817 (US6063462A)

© PatBase

Title: MULTILAYER FILM

Abstract: A flexible multilayer film suitable as a (food-)packaging material includes a first seal layer comprising principally a metallocene-catalyzed polyolefin, and a second seal layer comprising a copolymer of at least one oxygen-containing monomer and ethylene. The copolymer is set to have a crystal melting point lower than that of the metallocene-catalyzed polyolefin. The second seal layer may preferably have a thickness larger than that of the first seal layer. Because of the provision of the second seal layer adjacent to the first seal layer, the multilayer film is provided with an improved film-formability while retaining the good sealability of the metallocene-catalyzed polyolefin.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/16 B32B27/28 B32B27/32 B32B7/02 B65D30/02 B65D65/40 B65D75/26 B65D81/24 C08L23/04 (Advanced/Invention); B32B27/08 B32B27/16 B32B27/28 B32B27/32 B32B7/02 B65D30/02 B65D65/40 B65D75/26 B65D81/24 (Core/Invention)

International (IPC 1-7): A47G19/22 B32B27/08 B32B27/16 B32B27/28 B32B27/32 B32B7/02 B65D30/02 B65D65/40 B65D75/26 B65D81/24 C08L23/04

CPC: Y10S428/91 Y10T428/1317 Y10T428/1321 Y10T428/1324 Y10T428/1334 Y10T428/1352 Y10T428/1359 Y10T428/1383 Y10T428/26 Y10T428/269 Y10T428/31855 Y10T428/31913 B32B27/08 B32B7/02 B32B27/327 B32B2307/7242 B32B2307/736 B32B2309/105 B32B2439/70 B32B27/32

European: B32B27/32

US: 428/332 428/339 428/34.6 428/34.7 428/34.8 428/346 428/347 428/348 428/35.2 428/35.7 428/35.9 428/352 428/357 428/359 428/36.7 428/500 428/516 428/910

JP F-Term: 3E067 3E067/AA11 3E067/AB01 3E067/BA07/A 3E067/BA10/A 3E067/BA12/A 3E067/BB14/A 3E067/BB25/A 3E067/CA01 3E067/CA04 3E067/CA11 3E067/CA17 3E067/CA24 3E067/EA06 3E067/EE48 3E067/FB01 3E067/GC01 3E086 3E086/AA23 3E086/AD01 3E086/AD12 3E086/BA04 3E086/BA15 3E086/BB01 3E086/BB41 3E086/BB51 3E086/BB67 3E086/CA01 3E086/CA22 3E086/DA01 3E086/DA06 4F100 4F100/AK01/C 4F100/AK03/A 4F100/AK04/A 4F100/AK04/B 4F100/AK64/A 4F100/AK68/B 4F100/AK70/B 4F100/AL01/B 4F100/AL05/A 4F100/BA02 4F100/BA03 4F100/BA07 4F100/BA10/A 4F100/BA10/B 4F100/BA15 4F100/BA16 4F100/BA25 4F100/EH20 4F100/GB16 4F100/GB23 4F100/JA03 4F100/JA04/A 4F100/JA04/B 4F100/JD02/C 4F100/JJ03 4F100/JK02 4F100/JK13 4F100/JK17 4F100/JL01 4F100/JL08/A 4F100/JL12 4F100/JL12/A 4F100/YY00 4F100/YY00/A 4F100/YY00/B

JP F-Index: B32B27/16/101 B32B27/28/101 B32B27/32/C B32B27/32/103 B32B7/02/106 B65D65/40/C B65D65/40/D B65D75/26

Family:

Publication number	Publication date	Application number	Application date
AU19960825 A1	19970213	AU19960060825	19960730
AU199916436 A1	19990513	AU19990016436	19990212
AU698972 B2	19981112	AU19960060825	19960730
AU698972 C	20020207	AU19960060825	19960730
AU736684 B2	20010802	AU19990016436	19990212
CN1081536 C	20020327	CN19961006994	19960731
CN1148006 A	19970423	CN19961006994	19960731
DE69606811 D1	20000406	DE19966006811	19960725
DE69606811 T2	20000615	DE19966006811T	19960725
DE69606811 T3	20120112	DE19966006811T	19960725
EP0756931 A2	19970205	EP19960112038	19960725
EP0756931 A3	19970528	EP19960112038	19960725
EP0756931 B1	20000301	EP19960112038	19960725
EP0756931 B2	20110622	EP19960112038	19960725
JP3643449 B2	20050427	JP19960217743	19960731
JP9099526 A2	19970415	JP19960217743	19960731
US6063462 A	20000516	US19960688878	19960731
US6436495 BA	20020820	US20000545878	20000407

Priority:

PatBase - JP9099526 表1-1

	第1層	第2層	第3層	第4層	第5層	第6層
実施例1	MePE-4	EVA-3	EVA-4	PVDC-1	EVA-4	EVA-3 95% EVA-2 5%
実施例2	MePE-4 60% MePE-5 40%	EVA-3	EVA-4	PVDC-1	EVA-4	EVA-3 95% EVA-2 5%
比較例1	MePE-4	EVA-2	EVA-4	PVDC-1	EVA-4	MePE-4

* 1 : %はブレンド比率(質量%)を示す。以下の表も同じ。

表1-2

	実施例1	実施例2	比較例1
押出加工性	○	○	△
延伸成形性	○	○	△*
製袋性	○	○	△
生肉充填性	○	○△	△*

押出加工性: ○ 樹脂が押出機ダイドでまとわりつかず、容易にバリソン成形可能。
△ 樹脂がまとわりつき易く、ややバリソン成形が難しい。
延伸成形性: ○ ショルダーが上下にあまり揺れず、安定。
△ ショルダーが上下に大きく揺れ不安定で、数100mのサンプルしか得られなかった。延伸加熱温度を上げても、効果はなかった。
製袋性 (トヤマ高真空「HBM型製袋機」、凹形底付けシール)
○ 製袋速度は70袋/分と良好。
△ シール部側に多層フィルムが粘着し、シール部の厚みも薄くなった。製袋速度は30袋/分であった。
77℃の熱収縮温度でフィルムが生肉(約8Kg)にぴったり成形され、1m高さからの落下でシール部より破袋しなかった。
○ 77℃の熱収縮性、1m高さからの落下テストの結果は良い。
充填時の袋の開口性がありよくないが、フィルム同士の密着性がよく、ドリップ流出が目立たなかった。
△ 1m高さからの落下でシール部より、3個中1個破袋した。

JP19950214190 19950731 EP19960112038 19960725 AU19960060825 19960730
JP19960217743 19960731 US19960688878 19960731 AU19990016436 19990212
US20000545878 20000407

Probable Assignee: KUREHA CORP

Assignee(s): (std): KUREHA CHEMICAL IND CO LTD ; KUREHA CORP ; KUREHA KAGAKU KOGYO KK

Assignee(s): KUREHA CHEM IND CO LTD ; KUREHA KAGAKU KOGYO K K ; KUREHA KAGAKU KOGYO K K TOKIO
TOKYO

Inventor(s): (std): KITADA ICHIRO ; NISHIMOTO YOSHIHARU ; TSUKAMOTO HAJIME ; YOSHIHARU NISHIMOTO ; ICHIRO
KITADA ; HAJIME TSUKAMOTO

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; KRAMER BARSKE SCHMIDTCHEN

Designated states: DE FR GB NL

38) Family number: 29172822 (US2002090508A)

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Title: HEAT SEALABLE COMPOSITE WRAP MATERIAL

Abstract: Composite wrap materials for use as a protective covering in a variety of applications, and methods of making the composite wrap materials. More particularly, the invention relates to composite wrap materials used for packaging paper products.

Classifications:

International (IPC 8-9): B32B23/00 B32B23/08 B32B27/08
B32B27/10 B32B27/20 B32B27/36 B32B29/00 B32B37/00
B32B37/12 B32B7/12 B32B9/04 B65D65/02 B65D65/18 B65D65/22
B65D65/38 B65D65/40 B65D65/42 B65D75/04 C09J5/02 D21F13/00
D21H19/00 D21H19/42 D21H19/56 D21H27/10 E04B1/76 E04B1/78
E04B1/80 F16L59/02 (Advanced/Invention);
B32B27/32 B32B37/08 B32B37/15 D21H19/36 D21H19/56
E04B1/74 (Advanced/Non-invention);
B32B27/08 B32B27/10 B32B29/00 B32B7/12 B65D65/02 B65D65/40
D21F13/00 D21H19/00 E04B1/76 E04B1/78
F16L59/02 (Core/Invention);
B32B27/32 B32B37/08 B32B37/14 E04B1/74 (Core/Non-invention)

International (IPC 1-7): B05D1/02 B32B23/00 B32B23/08
B32B27/00 B32B27/04 B32B27/10 B32B27/12 B32B27/36
B32B29/00 B32B3/00 B32B31/30 B32B5/02 B32B5/18 B32B5/22
B32B7/12 B32B9/00 B32B9/04 B65D65/02 B65D65/18 B65D65/22
B65D65/38 B65D65/40 B65D65/42 B65D85/0 B65D85/00
C08G63/08 C09J5/02 C09J7/04 D21H17/00 D21H19/42 D21H19/56
D21H21/00 D21H27/10 E04B1/80 F16L59/02

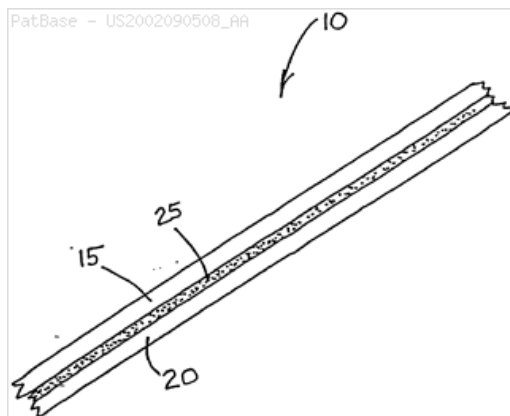
CPC: B32B7/12 B32B2255/12 B32B2307/726 B32B2439/00 Y10T428/27 Y10T156/1089 Y10T156/1092 Y10T156/1097
Y10T428/277 Y10T428/2991 Y10T428/3188 Y10T428/31895 Y10T428/31899 Y10T428/31902 Y10T428/31909 Y10T428/31938
Y10T428/31993 Y10T428/31906 Y10T428/31786 Y10T428/3179 Y10T428/31855 B32B37/08 B32B2315/14 Y10T442/20
Y10T442/2139 Y10T442/2738 Y10T442/674 B32B9/04 B65D65/18 D21H19/36 D21H19/56 D21H27/10 E04B1/7662 E04B1/78
E04B2001/741 Y02W90/12 B32B23/08 B32B27/20 B32B23/00 B32B27/08 B32B27/10 B32B27/36 B32B29/00 B32B37/153
B32B2307/304 B32B2317/12

European: B32B23/00 B32B27/08 B32B27/10 B32B27/36 B32B29/00 B32B9/04 B65D65/18 D21H27/10 E04B1/76E2B
E04B1/78 L32B307/304 L32B31/30 L32B315/14 L32B317/12 L32B37/08 L32B37/15B N21H19/36 N21H19/56 P04B1/74K

US: 156/244.11 156/280 156/297 156/299 156/302 156/324.4 156/324.400S 156/327 156/327S 162/119 162/119S 162/265
206/215 229/87.07 229/87.070P 427/177 427/177S 427/272 427/272S 427/276 427/276S 427/365 427/365S 427/421
427/424 427/424S 427/427.4 427/427.400S 428/219 428/340 428/342 428/342P 428/403 428/426 428/426P 428/480
428/481 428/500 428/500S 428/507 428/507P 428/511 428/511P 428/511S 428/512 428/513 428/513S 428/514 428/514S
428/515 428/515S 428/523 428/523S 428/537.5 428/537.500S 442/149 442/149S 442/394 442/394P 442/59 442/59S
442/76 442/76P 528/354 528/354P

Family:

Publication number	Publication date	Application number	Application date
AU2003225715 AA	20030922	AU20030225715	20030310
CA2410205 AA	20030430	CA20022410205	20021029
CA2414630 AA	20030617	CA20022414630	20021217
CA2416174 AA	20030711	CA20032416174	20030113
CA2417373 AA	20030723	CA20032417373	20030122
CA2428035 AA	20031107	CA20032428035	20030507
CA2428035 C	20110412	CA20032428035	20030507
CA2428320 AA	20031107	CA20032428320	20030507
CA2428320 C	20131105	CA20032428320	20030507
CA2431046 AA	20031130	CA20032431046	20030530
CA2478242 AA	20040907	CA20032478242	20030310
EP1361044 A2	20031112	EP20030252859	20030507
EP1361044 A3	20040303	EP20030252859	20030507
EP1483115 A1	20041208	EP20030744241	20030310
EP1483115 A4	20071003	EP20030744241	20030310
US2002090508 AA	20020711	US20020094060	20020308
US2003082369 AA	20030501	US20010021184	20011030
US2003082387 AA	20030501	US20020159912	20020531
US2003113567 AA	20030619	US20010023500	20011217
US2003129431 AA	20030710	US19980178329	19981023
US2003131963 AA	20030717	US20030340308	20030110
US2003136687 AA	20030724	US20020057410	20020123
US2003143392 AA	20030731	US20030385117	20030310
US2003190474 AA	20031009	US20020117625	20020405
US2003199218 AA	20031023	US20030431550	20030507
US2003211348 AA	20031113	US20030430227	20030505
US2004058602 AA	20040325	US20030654211	20030902
US2005148759 AA	20050707	US20050034730	20050113
US2007031657 AA	20070208	US20060580426	20061012



US2008026236 AA	20080131	US20060548154	20061010
US2008099540 AA	20080501	US20070964126	20071226
US2009020224 AA	20090122	US20070755345	20070530
US7297410 BB	20071120	US20010023500	20011217
US7348052 BB	20080325	US20030430227	20030505
WO03076185 A1	20030918	WO2003US07162	20030310

Priority:

US19980178329	19981023	US20010021184	20011030	US20010023500	20011217
US20020348044P	20020111	US20020057410	20020123	US20020360221P	20020227
US20020094060	20020308	US20020117625	20020405	US20020378380P	20020507
US20020159912	20020531	CA20022410205	20021029	CA20022414630	20021217
US20030340308	20030110	CA20032416174	20030113	CA20032417373	20030122
WO2003US07162	20030310	US20030385117	20030310	US20030430227	20030505
CA20032428035	20030507	CA20032428320	20030507	US20030431550	20030507
CA20032431046	20030530	US20030654211	20030902	US20050034730	20050113
US20060548154	20061010	US20060580426	20061012	US20070755345	20070530
US20070964126	20071226				

Probable Assignee: COATING EXCELLENCE INT

Assignee(s): (std): ARNDT WILLIAM R ; COATING EXCELLENCE INT ; COATING EXCELLENCE INT LL ; MUELLER LOU ANN ; COATING EXCELLENCE INTERNAT ; NOWAK MICHAEL R ; MUELLER LOUANN S ; COATING EXCELLENCE INTERNATIONAL ; COATING EXCELLENCE INTERNAT LL ; ABEL MICHAEL V ; ABEL MICHAEL VAN

Assignee(s): ANTARES CAPITAL LP COLLATERAL AGENT AS ; M AND I MARSHALL AND ILSLEY BANK ; COATING EXCELLENCE INTERNATIONAL ; VAN ABEL MICHAEL ; MAYNARD WALLACE J ; VANABEL MICHAEL ; ROYAL BANK OF CANADA COLLATERAL AGENT AS ; COATING EXCELLENCE INTERNATIONAL LLC ; COATING EXCELLENCE INT LLC

Inventor(s): (std): MUELLER LOUANN S ; NOWAK MICHAEL R ; VANABEL MICHAEL ; MUELLER LOU ANN ; MAYNARD WALLACE J ; ABEL MICHAEL V ; WILLIAM R ARNDT ; VAN ABEL MICHAEL ; MICHAEL R NOWAK ; LOUANN S MUELLER ; ARNDT WILLIAM R ; ABEL MICHAEL VAN

Inventor(s): ABEL MICHAEL ; ARNDT WILLIAM ; MUELLER LOUANN ; NOWAK MICHAEL

Agent(s): KIRBY EADES GALE BAKER; WEISS AND WEISS; DUANE MORRIS LLP IP DEPARTMENT; DUANE MORRIS LLP - PHILADELPHIA, IP DEPARTMENT; DUANE MORRIS LLP PHILADELPHIA IP DEPARTMENT; DUANE MORRIS LLP

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

39) Family number: 32133822 (US2005249903A)

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Title: COMPOSITIONS OF ETHYLENE/VINYL ACETATE COPOLYMERS FOR HEAT-SEALABLE EASY OPENING PACKAGING

Abstract: Disclosed are compositions comprising ethylene/vinyl acetate copolymers, tackifying resins and optionally polyolefins (for example, polyethylene and polypropylene) that provide strong, tight hermetic heat seals with an easily peelable opening feature to fluoropolymers such as polychlorotrifluoroethylene. Also disclosed are multilayer structures and packages comprising these compositions.

Classifications:

International (IPC 8-9): B29C65/00 B32B27/00 B32B27/08 B32B27/18 B32B27/28 B32B27/30 B32B37/00 B32B7/00 B32B7/06 B32B7/12 B65D65/40 B65D75/36 B65D75/58 B65D79/00 B65D83/04 C08L23/00 C08L23/08

C09J123/08 (Advanced/Invention);

C08L23/04 C08L23/10 (Advanced/Non-invention)

International (IPC 1-7): B32B27/30 B32B31/00 B32B7/12 B65D75/36 B65D75/58 C09J123/08

CPC: Y10T428/1334 Y10T428/1338 Y10T428/1341 Y10T428/1352 B65D75/5855 C08L23/04 C08L23/0815 C08L23/0853 C08L23/10 C09J123/0853 Y10T428/31544 Y10T428/31928 B32B27/20 B32B2307/31 B32B2439/70 B32B2439/80 B32B27/08 B32B2331/04 B32B2553/00 B32B27/306 B32B27/18 C08L2666/06

European: B32B27/08 B32B27/18 C08L23/08C1 C09J123/08C1 L32B331/04 L32B553/00 L65D75/58F M08L23/04 M08L23/08A1 M08L23/10

US: 156/275.1 156/275.100S 156/292 156/292S 156/308.2 156/308.4 156/322 156/330.9 156/332 156/332S 156/333 156/333S 206/204 206/467 206/467S 206/524.1 206/524.6 206/524.600S 206/531 229/123.1 428/35.2 428/35.3 428/35.4 428/35.7 428/35.700P 428/422 428/520

JP F-Term: 3E067 3E067/AA11 3E067/AB01 3E067/AB81 3E067/AB83 3E067/BA33/A 3E067/BB14/A 3E067/BB22/A 3E067/BB25/A 3E067/BC07/A 3E067/CA30 3E067/EA06 3E067/EA35 3E067/EE59 3E067/FA01 3E067/FB02 3E067/FC01 3E067/GD08 3E086 3E086/AB01 3E086/AB02 3E086/AC07 3E086/AD07 3E086/BA04 3E086/BA13 3E086/BA14 3E086/BA15 3E086/BB51 3E086/CA28 3E086/DA08 4F100 4F100/AB33/B 4F100/AK03/A 4F100/AK03/B 4F100/AK15/B 4F100/AK16/B 4F100/AK17/C 4F100/AK41/B 4F100/AK46/B 4F100/AK68/A 4F100/AK68/B 4F100/AK69/B 4F100/AK70/B 4F100/AL07/B 4F100/BA03 4F100/BA07 4F100/CA16/A 4F100/CA23/A 4F100/DG10/B 4F100/EJ42/2 4F100/GB15 4F100/YY00/A 4J002 4J002/AF02/Y 4J002/BB02/Z 4J002/BB05/Z 4J002/BB06/W 4J002/BB06/X 4J002/BB11/Z 4J002/BB12/Z 4J002/BB14/Z 4J002/BB15/Z 4J002/BB17/Z 4J002/BK00/Y 4J002/BL01/Y 4J002/CE00/Y 4J002/DE23/6 4J002/DJ04/6 4J002/FD01/6 4J002/FD34/Y 4J002/GG02 4J002/GJ02

JP F-Index: B32B27/28/101 B65D65/40/D B65D75/36 B65D75/58 C08L23/00 C08L23/08

Family:

Publication number	Publication date	Application number	Application date
AU2005207968 AA	20050811	AU20050207968	20050128
AU2005207968 BB	20100729	AU20050207968	20050128
BRPI0506480 A	20070206	BR2005PI06480	20050128
CN1914098 A	20070214	CN200580003468	20050128
CN1914098 B	20100901	CN200580003468	20050128
DE602005027174 D1	20110512	DE200560027174T	20050128
EP1708933 A1	20061011	EP20050712691	20050128
EP1708933 B1	20110330	EP20050712691	20050128
IN03829DN2006 A	20070427	IN2006DN03829	20060704
IN252012 B	20120427	IN2006DN03829	20060704
JP2007519814 T2	20070719	JP20060551604T	20050128
JP5356651 B2	20131204	JP20060551604T	20050128
US2005249903 AA	20051110	US20050045824	20050127
US2011068040 AA	20110324	US20100955956	20101130

US7892391 BB	20110222	US20050045824	20050127
US8137774 BB	20120320	US20100955956	20101130
WO05073106 A1	20050811	WO2005US03337	20050128

Priority:

US20040540216 20040129 US20040540216P 20040129 US20050045824 20050127
WO2005US03337 20050128 US20100955956 20101130

Probable Assignee: E I DU PONT DE NEMOURS AND CO

Assignee(s): (std): DU PONT ; KENDIG TERRANCE D ; TANNY STEPHEN R ; EIDU PONT DE NEMOURS AND CO ; TANNY STEPHEN ROBERT

Assignee(s): E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; E I DUPONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO ; EI DUPONT DE NEMOURS AND CO

Inventor(s): (std): TANNY STEPHEN R ; TERRANCE D KENDIG ; TANNY STEPHEN ROBERT ; KENDIG TERRANCE D TANNY STEPHE ; KENDIG TERRANCE D ; STEPHEN R TANNY

Inventor(s): TANNY STEPHEN ; KENDIG TERRANCE

Agent(s): HOULIHAN²; HOULIHAN² PTY LTD; HOULIHAN2; MORF JAN STEFAN; KUMAKURA YOSHIO; OGAWA NOBUO; HAKODA ATSUSHI; HIRAYAMA KOJI; ASAI KENJI; E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER

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

40) Family number: 31384823 (US2004247813A)

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Title: NONWOVEN PLASTIC POUCH SEPARATOR

Abstract: A rupturable seal comprising a film of a first polymer, a film of a second polymer and a sealing interlayer. The sealing interlayer has a melting point higher than the melting points of either the first polymer or the second polymer and comprises a plurality of micro-fibers each having an average effective fiber diameter from about 2.5 μm to about 7.0 μm. Fusion bonding of films of the first polymer and the second polymer to either side of a sealing interlayer produces a rupturable seal having a frangible interface including portions thereof wherein the first polymer contacts the second polymer. The rupturable seal parts at the frangible interface by application of force causing a gap and separation of the first film from the second film.

Classifications:

International (IPC 8-9): B32B27/00 B65D B65D1/00 B65D25/08 B65D30/02 B65D30/22 B65D65/40 B65D81/00 B65D81/32 B65D81/34 (Advanced/Invention); B65D1/00 B65D30/02 B65D81/00 B65D81/32 B65D81/34 (Advanced/Non-invention); B65D1/00 B65D25/04 B65D30/02 B65D30/22 B65D65/40 B65D81/00 B65D81/32 B65D81/34 (Core/Invention); B65D (Subclass/Invention)

International (IPC 1-7): B32B7/00 B65D1/00 B65D5/54 B65D81/00 B65D81/32

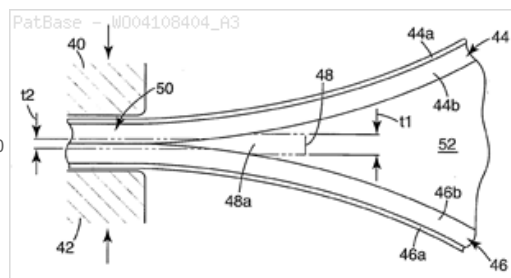
CPC: Y10T428/1366 Y10T428/1372 Y10T428/15 Y10T428/2915 Y10T428/298 B65D81/3266 Y10T428/31913

European: B65D81/32H1

US: 206/219 428/36.2 428/36.4 428/362 428/364 428/365 428/401 428/43 428/516

JP F-Term: 3E013 3E013/AA10 3E013/AB01 3E013/AB02 3E013/AB03 3E013/AB05 3E013/AB06 3E013/AB07 3E013/AB10 3E013/AC17 3E013/AC19 3E013/AD02 3E013/AD07 3E013/AD36 3E013/AE01 3E013/AE12 3E013/AF02 3E013/AF17 3E013/AF29 3E013/AF32 3E013/BA08 3E013/BB01 3E013/BB09 3E013/BB12 3E013/BC04 3E013/BC14 3E013/BD01 3E013/BD02 3E013/BD06 3E013/BD09 3E013/BD15 3E013/BE01 3E013/BE03 3E013/BF77 3E064 3E064/AA05 3E064/AB25 3E064/BA17 3E064/BA26 3E064/BA29 3E064/BA30 3E064/BA35 3E064/BA36 3E064/BA55 3E064/BB03 3E064/BC18 3E064/EA18 3E064/EA30 3E064/FA01 3E064/HN05 3E064/HT07 3E064/HT20 3E086 3E086/AB01 3E086/AC07 3E086/AC11 3E086/AD01 3E086/BA04 3E086/BA15 3E086/BA19 3E086/BB51 3E086/CA01 3E086/CA28 3E086/CA29 4F100 4F100/AK01 4F100/AK04 4F100/AK07 4F100/BA03 4F100/BA10 4F100/DB01 4F100/DG01 4F100/DG04 4F100/DG06 4F100/GB16 4F100/JB16 4F100/JK01 4F100/JL11 3E064/BA60 3E064/FA03 3E086/AD30 3E086/BA40

JP F-Index: B32B27/00/B B32B27/00/H B65D30/22/G B65D65/40/A B65D81/32/D B65D30/02 B65D30/22/F B65D65/40/D



Family:

Publication number	Publication date	Application number	Application date
AU2004245549 AA	20041216	AU20040245549	20040605
BRPI0410890 A	20060704	BR2004PI10890	20040605
BRPI0410891 A	20060704	BR2004PI10891	20040605
CA2527839 AA	20051130	CA20042527839	20040605
CN100554096 C	20091028	CN200480015622	20040605
CN1802297 A	20060712	CN200480015608	20040605
CN1802298 A	20060712	CN200480015622	20040605
EP1631508 A2	20060308	EP20040754347	20040605
EP1648798 A2	20060426	EP20040754354	20040605
HK1090010 A1	20061215	HK20060110416	20060919
HK1090010 A3	20061215	HK20060110416	20060919
IN03271CN2005 A	20070511	IN2005CN03271	20051205
IN229750 B	20090327	IN2005CN03271	20051205
JP2006526552 T2	20061124	JP20060515191T	20040605
JP2006526553 T2	20061124	JP20060515193T	20040605
KR20060027319 A	20060327	KR20057023071	20040605
KR20060028680 A	20060331	KR20057023070	20040605
MXPA05012677 A1	20060222	MX2005PA12677	20040605
MXPA05012990 A1	20060316	MX2005PA12990	20040605
RU2005136379 A	20060627	RU20050136379	20040605
RU2359888 C2	20090627	RU20050136379	20040605
US2004247813 AA	20041209	US20030455055	20030605

US2007080078 AA	20070412	US20040570357	20040605
US6893696 BB	20050517	US20030455055	20030605
WO04108404 A2	20041216	WO2004US17722	20040605
WO04108404 A3	20050203	WO2004US17722	20040605
WO04108558 A2	20041216	WO2004US17730	20040605
WO04108558 A3	20050317	WO2004US17730	20040605
ZA200600071 A	20070131	ZA20060000071	20060104

Priority:

US20030455055 20030605 US20030455055 20030605 US20030511064P 20031013
US20040570357 20040605 WO2004US17730 20040605 WO2004US17722 20040605

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIES COMPANY ; 3M INNOVEJTIV PROPERTIZ KOMPAN ; HANSEN PAUL E ; ROVANG JOHN W ; HAGEN NATHAN K ; THILL CHARLENE M

Assignee(s): CORNING RESEARCH AND DEVELOPMENT CORP ; 3M INNOVEJTIV PROPERTIZ KOMPANI

Inventor(s): (std): ROVANG DZHON V ; PAUL E HANSEN ; NATHAN K HAGEN ; ROVANG JOHN W ; KHANSEN POL E ; JOHN W ROVANG ; HANSEN PAUL E ROVANG JOHN W HA ; HANSEN PAUL E ; HAGEN NATHAN K ; CHARLENE M THILL ; THILL CHARLENE M ; THILL CHARLENE ; KHAGEN NATAN K ; HANSEN PAUL E M ; HAGEN NATHAN

Inventor(s): HANSEN PAUL ; HANSEN PAUL E ROVANG JOHN W HAGEN NATHAN K THILL C ; ROVANG JOHN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; LLOYD WISE AND CO; NISHISHITA SHOSEKI; YAMAMOTO MUNE0; AOYAMA TAMOTSU; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; TRUSSELL JAMES J; JAMES J

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

41) Family number: 49887842 (US2013045347A)

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Title: SHAPE-RETAINING FILM, PROCESS FOR PRODUCING SAME, LAMINATE FOR PACKAGING, PACKAGING MATERIAL AND PROCESS FOR PRODUCING SAME, SHAPE-RETAINING FIBER, AND ANISOTROPIC HEAT-CONDUCTIVE FILM

Abstract: Provided are a shape-retaining film which has excellent adhesion to inks and other functional layers while retaining high shape-retaining properties and a process for producing the shape-retaining film. The shape-retaining film comprises an ethylene homopolymer or an ethylene/a-olefin copolymer having a C3-6 a-olefin content less than 2 weight percent, the ethylene homopolymer or copolymer having a density of 950 kg/m³ or higher and a weight-average molecular weight (Mw)/number-average molecular weight (Mn) ratio of 5-20. The film has a tensile elasticity modulus of 6-50 GPa and has either an angle of recovery from 90 bending of 8 or less or an angle of recovery from 180 bending of 65 or less.

Classifications:

International (IPC 8-9): B29C55/02 B29C55/04 B29D22/00 B32B1/08 B32B15/085 B32B27/32 B32B33/00 B32B37/16 B65D65/40 C08J5/18 D01F6/04 D03D11/00 D03D13/00 D03D15/00 D03D25/00 F28F7/00 H01L23/36 H01L23/373 H05K7/20 (Advanced/Invention);

B29K23/00 B29L7/00 B29L9/00 (Advanced/Non-invention)

CP: H01L23/3737 B29C55/06 B29K2023/0625 B29K2023/065 C08G2280/00 C08J3232/04 D01D5/426 D01F6/46 H01L23/3733 D03D1/00 D03D15/00 D10B2401/046 D10B2505/06 H01L2224/16225 Y10T156/10 Y10T156/1036 Y10T428/1334 Y10T428/24355 Y10T428/31692 Y10T428/31938 Y10T442/3195 C08J5/18 D01F6/04

European: B29C55/06 C08J5/18 D01D5/42C D01F6/04 D01F6/46 H01L23/373H L29K23/06B3 L29K23/06B9 M08G280/00 M08J323/04

US: 156/217 156/60 165/185 264/291 428/141 428/35.2 428/461 428/523 442/205

JP F-Term: 3E086 3E086/AB01 3E086/AD01 3E086/BA04 3E086/BA13 3E086/BA15 3E086/BA28 3E086/BB51 3E086/BB66 3E086/BB90 3E086/CA01 5E322 5E322/AA11 5E322/AB06 5E322/FA04 5E322/FA09 5F136 5F136/BC07 5F136/DA44 5F136/EA29 5F136/EA41 5F136/FA02 5F136/FA41 5F136/FA51 5F136/FA75 5F136/FA88 5F136/GA40 3E086/AA23 3E086/AC07 3E086/AD24 3E086/BA14 3E086/BA18 3E086/BA19 3E086/BB01 3E086/BB42 3E086/BB54 3E086/BB62 3E086/CA40 4F071 4F071/AA15 4F071/AA15/X 4F071/AA20/X 4F071/AA21/X 4F071/AA81 4F071/AA88 4F071/AF15/Y 4F071/AF17/Y 4F071/AF20/Y 4F071/AF44/Y 4F071/AF60 4F071/AG22 4F071/AG28 4F071/AH04 4F071/AH12 4F071/BB07 4F071/BC01 4F071/BC02 4F071/BC10 4F071/BC11 4F071/BC12 4F071/BC14 4F071/BC16 4F100 4F100/AB10/B 4F100/AB33/B 4F100/AK04/A 4F100/AK05 4F100/AK62/A 4F100/AR00/B 4F100/BA02 4F100/GB15 4F100/JA07/A 4F100/JA13/A 4F100/JK07/A 4F100/JL12/B 4F100/JL15/A 4F100/YY00/A 4F210 4F210/AA04 4F210/AA05/E 4F210/AE01 4F210/AE02 4F210/AG01 4F210/AG03 4F210/AH54 4F210/AR07 4F210/AR12 4F210/AR13 4F210/AR15 4F210/AR20 4F210/QA03 4F210/QC02 4F210/QG01 4F210/QG15 4F210/QG18 4L048 4L048/AA15 4L048/BA09 4L048/BA16 4L048/BA22 4L048/CA00 4L048/DA32

JP F-Index: B65D65/40/D H01L23/36/D H01L23/36/M H05K7/20/F B29C55/04 B29K23/00 B29L7/00 B29L9/00 B32B27/32/Z C08J5/18 D03D11/00/Z D03D15/00/A D03D25/00

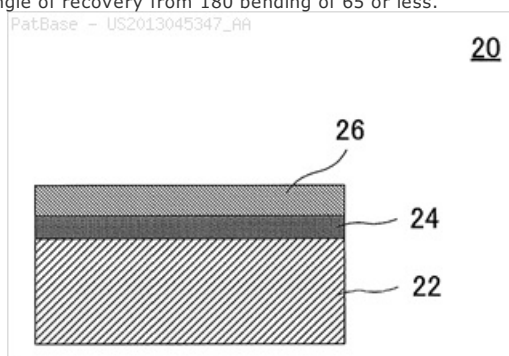
JP Facet: CES

Family:

Publication number	Publication date	Application number	Application date
JP2011135860 A1	20130718	JP20120512674T	20110427
JP2015065450 A2	20150409	JP20140227302	20141107
JP5726863 B1	20150603	JP20120512674T	20110427
JP5916831 B2	20160511	JP20140227302	20141107
KR101412313 B1	20140627	KR20127027735	20110427
KR20130019402 A	20130226	KR20127027735	20110427
US2013045347 AA	20130221	US20110695195	20110427
US8658263 BB	20140225	US20110695195	20110427
WO11135860 A1	20111103	WO2011JP02487	20110427

Priority:

JP20100105362 20100430 JP20100105363 20100430 JP20100121944 20100527
JP20100136326 20100615 JP20100136443 20100615 JP20100027465 20110210



Probable Assignee: MITSUI CHEMICALS INC

Assignee(s): (std): ERIGUCHI MICHIO ; KAWASUMI TAMIO ; MITSUI CHEMICALS INC ; NISHIKAWA SHIGEO

Inventor(s): (std): ERIGUCHI MICHIO ; KAWASUMI TAMIO ; NISHIKAWA SHIGEO ; ERIGUCHI MASAO

Agent(s): BUCHANAN INGERSOLL AND ROONEY PC; WASHIDA KIMIHIITO

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

42) Family number: 41629900 (EP1902839B1)

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Title: WHITE, ONE-SIDED MATT, SEALABLE, BIAXIALY ORIENTED POLYESTER FILM

Abstract: Source: EP1902839A3 [DE] Die Erfindung betrifft eine weisse, einseitig matte, siegelfaehige, biaxial orientierte Polyesterfolie umfassend eine Basisschicht B, eine siegelfaehige Deckschicht A und eine nicht siegelfaehige weisse matte Deckschicht C, die dadurch gekennzeichnet ist, dass a) die matte Deckschicht C ein Weisspigment in einer Konzentration von 2 bis 15 Gew.- percent und weitere anorganische Partikel in einer Konzentration von 1 bis 7 Gew.- percent und in einer Groesse von 2 bis 10 micrometres enthaelt, die die gewuenschte Mattheit/den gewuenschten niedrigen Glanz erzielen, b) die Basisschicht B ein Weisspigment in einer Konzentration von 3 bis 15 Gew.- percent enthaelt. Der bevorzugte Polyester der Basisschicht B ist Polyethylenterephthalat, die Deckschicht A enthaelt bevorzugt einen Copolyester aus Ethylenterephthalat- und Ethylenisophthalat-Einheiten.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/20 B32B27/36 B32B27/38 B32B37/14 B32B37/15 B32B38/00 B65B9/00 B65D65/40 B65D77/20 C08J5/18 C08L67/02 (Advanced/Invention); B32B27/08 B32B27/20 B32B27/36 B32B27/38 B32B37/14 B32B38/00 B65B9/00 B65D65/40 B65D77/10 C08J5/18 C08L67/00 (Core/Invention)

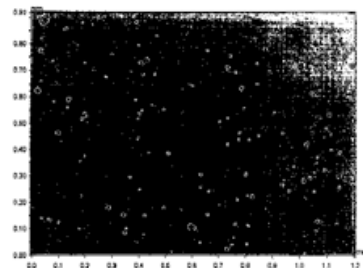
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European: B32B27/08 B32B27/20 B32B27/36 L32B367/00 L32B37/15B L32B38/00C8 L32B435/00 L32B553/00

PatBase - EP1902839_A2

EP 1 902 839 A2

Figure 1



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Family:

Publication number	Publication date	Application number	Application date
DE102006042887 A1	20080327	DE200610042887	20060913
DE502007008711 D1	20120223	DE200750008711T	20070904
EP1902839 A2	20080326	EP20070017279	20070904
EP1902839 A3	20090225	EP20070017279	20070904
EP1902839 B1	20111123	EP20070017279	20070904

Priority:

DE200610042887 20060913 EP20070017279 20070904

Probable Assignee: MITSUBISHI POLYESTER FILM GMBH

Assignee(s): (std): MITSUBISHI POLYESTER FILM GMBH

Inventor(s): (std): KONRAD MATTHIAS ; HILKERT GOTTFRIED ; MICHALSKI ARTUR ; JESBERGER MARTIN ; KONRAD MATTHIAS DR ; HILKERT GOTTFRIED DR ; JESBERGER MARTIN DR

Agent(s): PLATE SCHWEITZER ZOUNEK PATENTANWALTE; SCHWEITZER KLAUS ET AL; SCHWEITZER KLAUS

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 MK MT NL PL PT RO RS SE SI SK TR

43) Family number: 41476905 (US2010209640A)

© PatBase

Title: LAYERED FILM COMPOSITIONS, PACKAGES PREPARED THEREFROM, AND METHODS OF USE

Abstract: The invention relates to films and methods of making the same. The inventive films comprise at least three layers, an inner layer and at least two outer layers located at opposite surfaces of the inner layer. In one embodiment, the inner layer is formed from a composition comprising an ethylene-based interpolmer or a propylene-based interpolmer, and at least one outer layer is formed from a composition comprising one or more propylene-based interpolymers. The invention also provides articles formed from the inventive films, and for methods of making the same.

Classifications:

International (IPC 8-9): B29C49/04 B29C49/16 B29C55/26 B29C61/06 B29C69/00 B29C69/02 B32B1/02 B32B27/30 B32B27/32 B32B38/00 B32B7/02 B65D65/40 (Advanced/Invention); B29K105/02 B29K23/00 B29L23/00 B29L9/00 (Advanced/Non-invention); B29C49/04 B29C49/08 B29C55/00 B29C61/06 B29C69/02 B32B1/00 B32B27/30 B32B27/32 B32B38/00 B32B7/02 B65D65/40 (Core/Invention)

International (IPC 1-7): B29C69/02 B32B27/30

CPC: B32B27/32 B29C47/0021 B29C47/0057 B29L2023/001 B32B27/08 B32B27/36 B32B2250/242 B32B2307/31 B32B2307/736 B32B2439/00 B29C47/0064 B29C47/065 Y10T428/1352 Y10T428/24992

European: B32B27/08 B32B27/32 B32B27/36 L29C47/00J5 L29C47/00L8 L29L23/00B L32B250/24A L32B307/310 L32B307/736 L32B439/00

US: 264/510 264/510S 428/218 428/218S 428/35.7 428/35.700P

JP F-Term: 3E086 3E086/BA04 3E086/BA15 3E086/BA33 3E086/BB67 4F100 4F100/AK03/A 4F100/AK03/B 4F100/AK03/C 4F100/AK03/D 4F100/AK03/E 4F100/AK04/A 4F100/AK04/B 4F100/AK04/C 4F100/AK04/D 4F100/AK04/E 4F100/AK07/A 4F100/AK07/B 4F100/AK07/C 4F100/AK07/D 4F100/AK07/E 4F100/AK63/B 4F100/AL01/A 4F100/AL01/B 4F100/AL01/C 4F100/AL01/D 4F100/AL01/E 4F100/BA05 4F100/BA06 4F100/GB15 4F100/JA03 4F100/JK07 4F100/JL01 4F100/JL11 4F100/YY00/A 4F100/YY00/B 4F100/YY00/C 4F100/YY00/D 4F100/YY00/E 4F210 4F210/AA04/E 4F210/AA11/E 4F210/AE01 4F210/AG01 4F210/AG03 4F210/AG08 4F210/AH54 4F210/AR06 4F210/AR12 4F210/QA05 4F210/QC07 4F210/QG02 4F210/QG04 4F210/QG15 4F210/QG18 4F210/RA03 4F210/RC02 4F210/RG02 4F210/RG05 4F210/RG09 4F210/RG43 3E086/AA21 3E086/AB02 3E086/AC07 3E086/AC34 3E086/AD01 3E086/AD08 3E086/AD16 3E086/AD17 3E086/BB22 3E086/BB51 3E086/BB62 3E086/BB68 3E086/BB85 3E086/BB90 3E086/CA34 3E086/CA40 3E086/DA08 4F100/AK07 4F100/AK62 4F100/AK64 4F100/AK66 4F100/AL01 4F100/BA03 4F100/EH17 4F100/EH20 4F100/JA06 4F100/JA13 4F100/JK02 4F100/JK03 4F100/JK10 4F100/JN02 4F100/YY00

JP F-Index: B29C55/26 B29C61/06 B29K105/02 B29K23/00 B29L23/00 B29L9/00 B32B27/32/E B32B7/02/106 B65D65/40/D

PatBase - US2010209640_AA

Parent Application Publications Aug. 19, 2010 Sheet 1 of 2 US 2010/0209640 A1

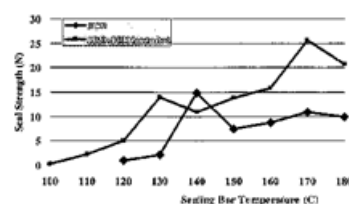


Figure 1

Family:

Publication number	Publication date	Application number	Application date
AR063215 AA	20090114	AR2007P103360	20070730
BRPI0714109 A2	20130101	BR2007PI14109	20070730
BRPI0714109 B1	20180807	BR2007PI14109	20070730
CA2658945 AA	20090126	CA20072658945	20070730
CA2658945 C	20150407	CA20072658945	20070730
CN101117036 A	20080206	CN200610171888	20060731
CN101522414 A	20090902	CN200780036629	20070730
CN101522414 B	20141119	CN200780036629	20070730
EP2049331 A1	20090422	EP20070785207	20070730
EP2049331 A4	20120815	EP20070785207	20070730
IN00555CN2009 A	20090605	IN2009CN00555	20090130
JP2009544505 T2	20091217	JP20090522073T	20070730
JP2013010353 A2	20130117	JP20120167484	20120727
JP5709378 B2	20150430	JP20090522073T	20070730
JP5883360 B2	20160315	JP20120167484	20120727
MX2009002183 A1	20090311	MX20090002183	20070730
MY162513 A	20170615	MY20090000382	20070730
TH95797 A	20090529	TH20071003778	20070727
TW200918309 A	20090501	TW20070127801	20070730
TWI435806 B	20140501	TW20070127801	20070730
US2010209640 AA	20100819	US20070374449	20070731
WO08017244 A1	20080214	WO2007CN002292	20070730

Priority:

CN200610171888 20060731 CN200780036629 20070730 JP20090522073 20070730
JP20090522073T 20070730 WO2007CN002292 20070730 WO2007CN002292 20070731

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DOW GLOBAL TECH INC ; DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES LLC ; TAOSHI GLOBE TECHNOLOGY CO LTD ; YUN XIAOBING

Assignee(s): YUN XIAO BING ; TAOSHI GLOBE TECHNOLOGY CO

Inventor(s): (std): XIAOBING YUN ; YUN XIANOBING ; YUN XIAO BING ; YUN XIAOBING

Agent(s): SMART AND BIGGAR; HAYES ADRIAN CHETWYND; KOBAYASHI HIROSHI; OHMORI NORIO; THE DOW CHEMICAL COMPANY; LIU SHEN ASSOCIATES

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

44) Family number: 23422906 (US2005031814A)

© PatBase

Title: MULTI-LAYER POLYMERIC FILM FOR PACKAGING OVENABLE MEALS

Abstract: A heat-sealable peelable multi-layer laminated polymeric film comprising a polymeric substrate layer having on one side thereof a polymeric heat-sealable peelable layer and having on the opposite side thereof a polymeric shrinkable layer, wherein said shrinkable layer has a degree of shrinkage in a first dimension of about 10-80 percent over the temperature range 55 to 100 degrees centigrade, a ratio of shrinkage at 100 degrees centigrade said first dimension relative

to a second, orthogonal dimension in the range of 1:1 to 10:1, and further comprising one or two intermediate layer(s) wherein an intermediate layer is disposed between the substrate layer and the shrinkable layer and/or between the substrate layer and the heat-sealable peelable layer, and one or more layer(s) of an electrically conductive material; and use thereof as packaging for ovenable meals or as a lid on an ovenable container wherein the packaging is self-peeling and self-venting during a cooking cycle.

Classifications:

International (IPC 8-9): B32B27/00 B32B27/06 B32B27/08 B32B27/36 B65D65/40 B65D77/20 B65D81/34 (Advanced/Invention); B32B27/36 (Advanced/Non-invention); B32B27/00 B32B27/36 B65D65/40 B65D77/10 B65D81/34 (Core/Invention)

International (IPC 1-7): B32B27/00 B32B27/36 B32B31/06

B32B33/00 B65D1/00 B65D65/40 B65D77/20 B65D81/34

CPC: Y10T156/1093 Y10T428/13 Y10T428/1352 Y10T428/1355

Y10T428/2817 B65D81/343 B65D2205/00 B65D2581/3445

Y10T428/31786 B32B7/06 B32B7/12 B32B15/09 B32B15/20

B32B27/10 B32B2250/40 B32B2250/42 B32B2307/20 B32B2307/31

B32B2307/736 B32B2307/748 B32B2311/24 B32B2317/12 B32B2439/70 B32B27/36 B65D81/3453

European: B32B27/36 B65D81/34C B65D81/34M1 L65D205/00 L65D581/34M3C

US: 156/300 156/300S 206/484.2 426/106 426/113 426/126 426/127 426/243 428/34.1 428/347 428/347S 428/35.7

428/35.700P 428/35.8 428/48 428/480 428/480S

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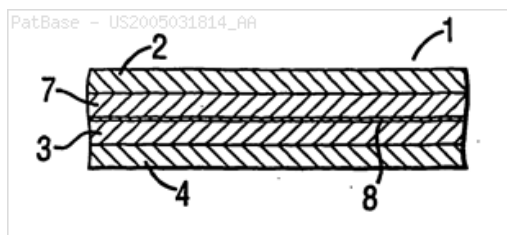
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4F100/EH66 4F100/GB18 4F100/GB23 4F100/JA03 4F100/JG01 4F100/JG05 4F100/JK06 4F100/JL12 4F100/JL14 4F100/YY00

JP F-Index: B32B27/00/B B32B27/00/M B32B27/36 B65D81/34/X



Family:

Publication number	Publication date	Application number	Application date
CN100537229 C	20090909	CN20028018684	20020923
CN1558827 A	20041229	CN20028018684	20020923
DE60210115 D1	20060511	DE20026010115	20020923
DE60210115 D1	20060511	DE20026010115T	20020923
DE60210115 T2	20070315	DE20026010115T	20020923
EP1444098 A1	20040811	EP20020767656	20020923
EP1444098 B1	20060322	EP20020767656	20020923
GB200122937 A0	20011114	GB20010022937	20010924
GB200210379 A0	20020612	GB20020010379	20020507
JP2005529764 T2	20051006	JP20030530506T	20020923
JP4146340 B2	20080910	JP20030530506T	20020923
KR100885097 B1	20090220	KR20047004186	20020923
KR20040037095 A	20040504	KR20047004186	20020923
US2005031814 AA	20050210	US20020489457	20020923
US7824749 BB	20101102	US20020489457	20020923
WO03026892 A1	20030403	WO2002GB04304	20020923
WO03026892 C1	20040603	WO2002GB04304	20020923

Priority:

GB20010022937 20010924 GB20020010379 20020507 WO2002GB04304 20020923
WO2002GB04304 20040323

Probable Assignee: DUPONT TEIJIN FILMS US PARTNERSHIP LTD

Assignee(s): (std): DAWES MARK EDWARD ; DUPONT TEIJIN FILMS U S ; DUPONT TEIJIN FILMS US LTD ; DUPONT TEIJIN FILMS U S LTD ; DUPONT TEIJIN FILMS U S LTD PA ; DUPONT TEIJIN FILMS US

Assignee(s): DUPONT TEIJIN FILMS US LTD PARTNERSHIP ; DUPONT TEIJIN FILMS US PARTNERSHIP LTD ; DUPONT TEIJIN FILMS U S LTD PARTNERSHIP ; DUPONT TEIJIN FILMS U S LIMITED PARTNERSHIP

Inventor(s): (std): DAWES EDWARD ; DAWES MARK EDWARD ; EDWARD DAWES MARK

Inventor(s): DAWES MARK ; DAWES

Agent(s): DUPONT TEIJIN FILMS U S PARTNERSHIP LTD; RATNERPRESTIA

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

45) Family number: 28215937 (US2002098334A)

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Title: COATED MULTILAYER POLYETHYLENE FILM

Abstract: Coated multilayer polyethylene films having improved sealability and barrier properties are provided. The films include a substrate which has been oriented in the machine direction to a degree of from about 5:1 to about 8:1 and in the direction transverse to the machine direction to a degree of from about 6:1 to about 15:1, and a coating selected from the group including polyvinylidene chloride, low temperature seal coating, polyvinyl alcohol polymer and acrylic coating. The substrate has a high density polyethylene base layer and at least a first skin layer adhered to a first side of the base layer.

Classifications:

International (IPC 8-9): B29C55/02 B29C55/12 B32B27/00

B32B27/08 B32B27/32 C08F10/02 C08F210/00 C08J5/18 C08J7/04

C08L23/04 C08L23/06 (Advanced/Invention);

B29C55/02 B29C55/12 B29K23/00 B29L7/00 B32B27/08

C08F210/00 (Advanced/Non-invention);

B29C55/02 B29C55/12 B32B27/08 B32B27/32 C08F210/00 C08J5/18

C08L23/00 (Core/Invention);

B32B27/32 (Core/Non-invention)

International (IPC 1-7): B29C55/02 B29C55/02 B29C55/12

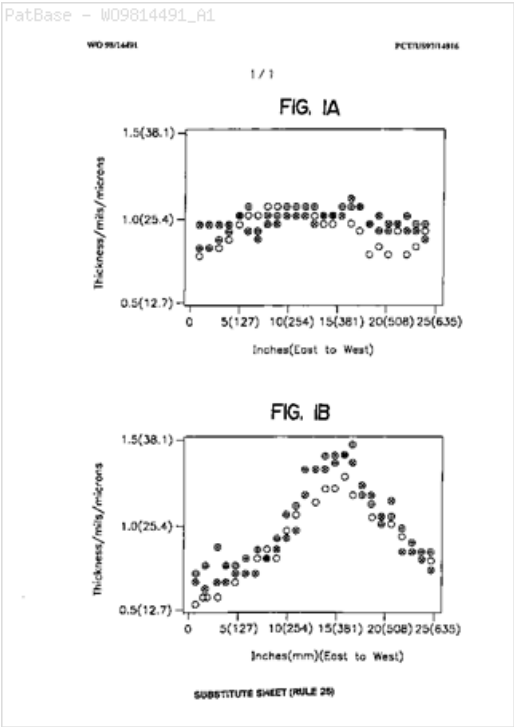
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C08F10/14 C08F210/00 C08J05/18 C08J5/18 C08J7/00 C08L23/04

C08L23/06

CPC: Y10S264/901 Y10S264/902 Y10S264/903 Y10S428/91 B29K2023/086 B29K2023/0641 C08J2323/02 C08J2423/00 C08J2427/00 C08J2429/00 C08J2433/00 B29C55/023 B29K2023/0616 B29K2023/065 B29K2023/083 B29K2023/12 C08J2323/06 Y10T428/24967 Y10T428/24975 Y10T428/254 Y10T428/265 Y10T428/249953 Y10T428/249956 Y10T428/249958 Y10T428/31855 Y10T428/31909 Y10T428/31913 Y10T428/249992 Y10T428/3192 Y10T428/31928 Y10T428/31938 B32B27/08 B32B2255/10 B32B2255/26 B32B2307/514 B32B2323/043 C08J7/047 B32B7/02 B32B27/306 B32B2270/00 B32B2307/31 B32B2307/518 B32B2307/704 B32B2323/10 B32B27/32 C08J5/18 **European:** B29C55/02B B32B27/32 C08J5/18 C08J7/04L C08J7/04L23 C08J7/04L27 C08J7/04L29 C08J7/04L33 L29K23/06B1 L29K23/06B7 L29K23/06B9 L29K23/08B L29K23/08D L29K23/12 M08J323/02 M08J323/06 M08J423/00 M08J427/00 M08J429/00 M08J433/00 **US:** 264/280 264/288.4 264/290.2 264/299 264/901 264/902 264/903 428/215 428/215S 428/216 428/216P 428/304.4 428/307.3 428/308.4 428/319.7 428/319.700S 428/327 428/327S 428/336 428/500 428/515 428/516 428/516S 428/518 428/518S 428/52 428/520 428/520S 428/523 428/910 526/348.5 **JP F-Term:** 4F071 4F071/AA14 4F071/AA15/X 4F071/AA16 4F071/AA17 4F071/AA18 4F071/AA20/X 4F071/AA21/X 4F071/AA28/X 4F071/AA33 4F071/AA82 4F071/AA84 4F071/AA88 4F071/AA89 4F071/AB21 4F071/AD02 4F071/AE22 4F071/AF08 4F071/AF08/Y 4F071/AF11 4F071/AF14 4F071/AF15 4F071/AF17 4F071/AF20 4F071/AF21 4F071/AF23 4F071/AF30 4F071/AF32 4F071/AF46 4F071/AF53 4F071/AF54 4F071/AF59 4F071/AG12 4F071/AG21 4F071/AH04 4F071/AH06 4F071/AH19 4F071/BB06 4F071/BB08 4F071/BC01 4F071/BC07 4F071/BC09 4F071/BC10 4F071/BC12 4F100 4F100/AA08 4F100/AK03/C 4F100/AK03/E 4F100/AK03/J 4F100/AK04/C 4F100/AK04/E 4F100/AK05/A 4F100/AK05/C 4F100/AK05/E 4F100/AK06/C 4F100/AK06/E 4F100/AK07/C 4F100/AK07/E 4F100/AK07/J 4F100/AK68/C 4F100/AK68/E 4F100/AL01/C 4F100/AL01/E 4F100/AL05/C 4F100/AL05/E 4F100/AR00/B 4F100/AR00/D 4F100/BA01 4F100/BA02 4F100/BA03 4F100/BA04 4F100/BA05 4F100/BA06 4F100/BA07 4F100/BA10/B 4F100/BA10/C 4F100/BA10/D 4F100/BA10/E 4F100/BA13 4F100/CA30 4F100/DJ06/A 4F100/EJ38/A 4F100/EJ38/K 4F100/GB15 4F100/GB16 4F100/GB23 4F100/GB90 4F100/JA06/A 4F100/JA11/C 4F100/JA11/E 4F100/JA11/K 4F100/JA13/A 4F100/JB04/B 4F100/JB04/D 4F100/JD04/A 4F100/JJ04 4F100/JK01 4F100/JK02 4F100/JK04 4F100/JK08 4F100/JK10 4F100/JL01 4F100/JL05/C 4F100/JL05/E 4F100/JL12/B 4F100/JL12/C 4F100/JL12/D 4F100/JL12/E 4F100/YY00/A 4F100/YY00/C 4F100/YY00/E 4F100/YY00/J 4F210 4F210/AA05 4F210/AA11/E 4F210/AG01 4F210/AG03 4F210/AH54 4F210/AR12 4F210/QC06 4F210/QD25 4F210/QG01 4F210/QG15 4J002 4J002/BB03/1 4J002/BB05/1 4J002/BB15/1 4J002/FD09/0 4J002/FD20/0 4J002/GG02 **JP F-Index:** B29C55/12 B29K23:00 B29L7:00 B32B27/32/E C08J5/18 C08L23/04 **JP Facet:** CES



Family:

Publication number	Publication date	Application number	Application date
AR010503 AA	20000628	AR1997P104543	19971002
AR017156 AA	20010822	AR1998P104810	19980925
AR023871 AA	20020904	AR2000P102190	20000505
AU199740866 A1	19980424	AU19970040866	19970825
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CA2267885 AA	19990406	CA19972267885	19970825
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Priority:

US19960715546 19961003 WO1997US14916 19970825 US19970940261 19970930
WO1998US17219 19980820 US19990305760 19990505 WO2000US12198 20000504

Probable Assignee: JINDAL FILMS AMERICAS LLC

Assignee(s): (std): EXXONMOBIL OIL CORP ; MOBIL OIL CORP

Assignee(s): MOBIL OIL CORP FAIRFAX ; MOBIL OIL CORPORATIONUS ; POIRIER ROBERT V ; POIRIER ROBERT VICTOR ; TIEN KUEI SU ; EXXONMOBIL OIL 5200 BAYWAY DRI CORPVEB ; EXXONMOBIL OIL CORP FAIRFAX ; FILMS AMERICAS LLC ; JINDAL FILMS AMERICAS LLC ; JPF USA LLC ; LARTER JOHN ALAN ; MOBIL CHEMICAL CORP

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Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR ID IE IT JP KR LU MC NL PT SE SG VN

46) Family number: 32088942 (US2005159549A)

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Title: COMPOSITION COMPRISING ETHYLENE COPOLYMERS AND POLYOLEFIN

Abstract: Disclosed are compositions of ethylene/(meth)acrylate copolymers, polyolefins (e.g., polyethylene and polypropylene), optional tackifier resins and optional fillers that provide very strong, tight hermetic heat seals yet are easily peelable. These compositions are useful as an adhesive layer in multilayer structures that are useful as packaging lidding films. Also disclosed are packages that comprise these multilayer structures.

Classifications:

International (IPC 8-9): B29D23/00 B32B1/08 B32B27/00 B32B27/08 B32B27/10 B32B27/20 B32B27/28 B32B27/30 B32B27/32 B32B33/00 B65D1/00 B65D30/02 B65D65/40 B65D73/00 B65D75/36 C08J5/18 C08K11/00 C08K3/00 C08K3/34 C08L23/00 C08L23/08 C08L33/02 C09D123/08 C09J11/04 C09J11/08 C09J123/00 C09J123/04 C09J123/08 C09J133/06 C09J133/08 C09J7/02 (Advanced/Invention); B32B27/08 (Core/Invention)

International (IPC 1-7): C08J5/18 C08K13/02 C08L23/08 C08L33/02 C08L33/10 C09D123/08 C09J123/08

CPC: Y10T428/13 Y10T428/1476 C08L23/0815 C08L2205/02 C09J123/0869 Y10T428/1352 B32B27/322 B32B2307/31 B32B2307/748 B32B2439/00 B32B2439/70 B32B2439/80 B32B27/08 C08L2666/02 C08L2666/06

European: B32B27/08 C09J123/08C3 M08L205/02 M08L23/08A1

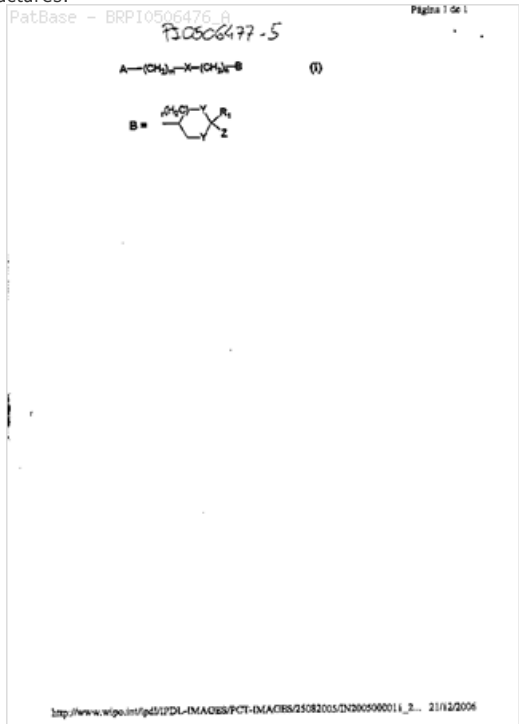
US: 206/462 428/34.1 428/35.7 428/35.700S 428/41.8 428/41.800S 439/35.7 439/511 439/513 439/514 439/516 439/520 524/271 524/271S 524/451 524/451S 524/522 524/522S 525/119 525/119P

JP F-Term: 3E064 3E064/BA01 3E064/BA21 3E064/BA24 3E064/BA25 3E064/BA26 3E064/BA29 3E064/BA30 3E064/BA35 3E064/BA36 3E064/BA37 3E064/BA38 3E064/BA46 3E064/BA54 3E064/BB01 3E064/BB03 3E064/BC18 3E064/FA01 3E064/FA04 3E064/FA05 3E064/HN05 3E067 3E067/AA03 3E067/AA04 3E067/AA11 3E067/AB01 3E067/AB04 3E067/AB16 3E067/AB28 3E067/BA33/A 3E067/BB08/A 3E067/BB14/A 3E067/BB15/A 3E067/BB16/A 3E067/BB25/A 3E067/CA24 3E067/EA06 3E067/EA32 3E067/EB27 3E067/EC07 3E067/FA01 3E067/FB02 3E067/FC01 3E086 3E086/AD01 3E086/AD06 3E086/AD07 3E086/AD23 3E086/BA04 3E086/BA13 3E086/BA14 3E086/BA15 3E086/BA35 3E086/BB01 3E086/BB51 3E086/CA01 3E086/CA28 4F100 4F100/AB33/B 4F100/AB33/C 4F100/AC10/A 4F100/AG00/C 4F100/AK03/B 4F100/AK04/A 4F100/AK05/C 4F100/AK06/A 4F100/AK07/A 4F100/AK12/C 4F100/AK15/B 4F100/AK16/B 4F100/AK17/C 4F100/AK21/A 4F100/AK25/C 4F100/AK27/C 4F100/AK41/B 4F100/AK42/C 4F100/AK45/C 4F100/AK46/B 4F100/AK54/C 4F100/AK55/C 4F100/AK68/B 4F100/AK69/B 4F100/AK71/B 4F100/AK73/A 4F100/AL01/A 4F100/AL05/A 4F100/BA03 4F100/BA07 4F100/CA17/A 4F100/CA23/A 4F100/DA03 4F100/DG10/B 4F100/DG10/C 4F100/DJ01/C 4F100/GB23 4F100/JL14 4F100/YY00/A 4J002 4J002/BB05/X 4J002/BB07/W 4J002/BB08/4 4J002/BK00/Y 4J002/CE00/Y 4J002/DE23/6 4J002/DJ04/6 4J002/GF00 4J002/GG01 4J002/GJ02 3E086/AA01 3E086/AB01 3E086/AC07 3E086/AD24 3E086/BB90 3E086/CA05 3E086/CA22 4F100/AB33 4F100/AK03 4F100/AK04 4F100/AK05 4F100/AK06 4F100/AK07 4F100/AK12 4F100/AK15 4F100/AK16 4F100/AK17 4F100/AK21 4F100/AK25 4F100/AK27 4F100/AK41 4F100/AK42 4F100/AK45 4F100/AK46 4F100/AK55 4F100/AK69 4F100/AK71 4F100/AL01 4F100/AL02 4F100/AL03 4F100/AT00 4F100/BA02 4F100/BA10 4F100/CA13 4F100/CA16 4F100/CA23 4F100/DG10 4F100/EJ02 4F100/GB15 4F100/GB16 4F100/GB18 4F100/JK06 4F100/JK10 4F100/JL12 4F100/YY00 4J002/BB03 4J002/BB05 4J002/BB07 4J002/BB12 4J002/BB15 4J002/BB16 4J002/BB17 4J002/GG02 4J002/GJ01 4J004 4J004/AA07 4J004/AA10 4J004/AB03 4J004/BA02 4J004/CA02 4J004/CA04 4J004/CA05 4J004/CA06 4J004/CA08 4J004/CB02 4J004/CB03 4J004/CC03 4J004/CE01 4J004/CE03 4J004/EA05 4J004/FA06 4J040 4J040/DA03 4J040/DA06 4J040/DA14 4J040/DF04 4J040/DF05 4J040/HA35 4J040/JA09 4J040/JB01 4J040/KA26 4J040/KA42 4J040/LA08 4J040/MA02 4J040/MA09 4J040/MA11 4J040/MB03 4J040/NA08 4J040/PA23 4J040/PA30 4J040/PA33 4J040/PA42

JP F-Index: B32B27/28/101 B65D30/02 B65D65/40/D B65D75/36 C08K3/00 C08L23/00 B32B27/00/D B32B27/00/M B32B27/20/A B32B27/30/A B32B27/32/C C08L23/08 C09J11/04 C09J11/08 C09J123/00 C09J123/04 C09J133/06 C09J7/02/Z C09J7/10 C09J7/24 C09J7/25 C09J7/28 C09J7/29 C09J7/35

Family:

Publication number	Publication date	Application number	Application date
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BRPI0506476 B1	20151020	BR2005PI06476	20050106
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Priority:

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US20040588230P 20040715 JP20060549478 20050106 JP20060549478T 20050106
WO2005US00686 20050106 US20050031916 20050107 US20110311103 20111205

Probable Assignee: E I DU PONT DE NEMOURS AND CO

Assignee(s): (std): DU PONT ; KENDIG TERRANCE D ; EIDU PONT DE NEMOURS AND CO ; TANNY STEPHEN ROBERT ; TANNY STEPHEN ; TANNY STEPHEN R

Assignee(s): E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; E I DU PONT DE NEMOURS CO ; E I DUPONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO ; EI DUPONT DE NEMOURS AND CO

Inventor(s): (std): KENDIG TERRANCE D TANNY STEPHE ; STEPHEN R TANNY ; TERRANCE D KENDIG ; TANNY STEPHEN ROBERT ; TANNY STEPHEN R ; TANNY STEPHEN ; KENDIG TERRANCE D

Inventor(s): KENDIG TERRANCE

Agent(s): HOULIHAN²; HOULIHAN²; HOULIHAN² PTY LTD; HEINEMANN MONICA ET AL; KUMAKURA YOSHIO; OGAWA NOBUO; HAKODA ATSUSHI; HIRAYAMA KOJI; ASAI KENJI; YAMASAKI KAZUO; ICHIKAWA SATSUKI; E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER

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

47) Family number: 31051997 (US2001036555A)

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Title: BACKSEAMED CASING AND PACKAGED PRODUCT INCORPORATING SAME

Abstract: A heat-shrinkable backseamed casing film comprises a first layer, a second layer, and a third layer, with the first and third layers being outer layers and the second layer being between the first layer and the third layer. The first outer layer serves as an inside casing layer, and comprises polyolefin; the second layer comprises polyester and/or polyamide; the third layer serves as an outside casing layer and comprises polyolefin, polystyrene, and/or polyamide. The second layer has a thickness of at least about 5 percent of a total thickness of the heat-shrinkable casing film. Alternatively, the first layer comprises polyolefin and has a surface energy level of less than about 34 dynes/cm; the second layer comprises a polyamide having a melting point of at least 300 degrees Fahrenheit; and the third layer comprises polyolefin, polystyrene and/or polyamide. A package comprises a cooked meat product within the backseamed casing. The second layer of the casing film prevents or reduces necking down on the forming shoe during backseaming. The backseamed casing is especially useful for cook-in applications.

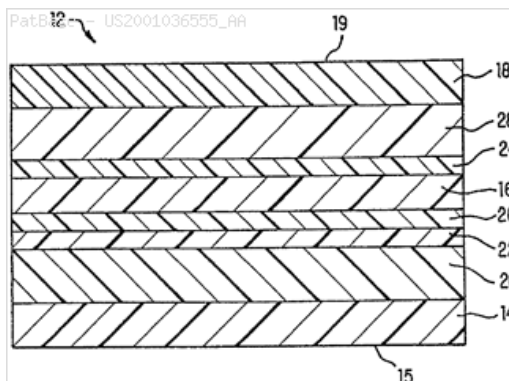
Classifications:

International (IPC 8-9): A22C13/00 A22C13/02 A23B7/148 B29C47/00 B29C47/06 B29C55/28 B31C11/04 B32B27/00 B32B27/08 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B7/02 B32B7/06 B65B29/08 B65D65/02 B65D65/40 B65D71/08 B65D75/26 B65D81/34 B65D85/50 B65D85/72 C08J5/18 C08L23/00 C08L23/08 C08L23/10 C08L77/00 C08L77/02 C08L77/06 F41A19/11 F41A33/00 (Advanced/Invention); B29C47/00 B32B27/00 B32B7/02 B65D65/02 B65D71/08 B65D75/26 B65D81/34 B65D85/50 C08L23/00 C08L23/10 (Advanced/Non-invention); A23B7/144 B32B27/08 B32B27/28 B32B27/32 B32B7/02 B32B7/06 B65B29/00 B65D65/40 B65D71/06 B65D85/72 C08L23/00 (Core/Invention); B65D71/06 C08L23/00 (Core/Non-invention)

International (IPC 1-7): A22C13/00 A22C13/02 A23G1/00 B29C47/04 B29C47/06 B29C47/88 B29C55/12 B29C55/26 B29C55/28 B32B27/00 B32B27/06 B32B27/08 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B31/30 B32B7/02 B32B7/06 B65B29/08 B65D65/02 B65D65/40 B65D71/08 B65D81/34 B65D85/50 B65D85/72 C08J5/18 C08L23/10 C08L77/00 C08L77/02 F16B4/00

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Designated states: AT AU BE BR CA CH CN CZ DE DK ES FI FR GB GR HU IE IT LI LU MC MX NL NZ PL PT RU SE