

Search history

Search 1: SFT=(MULTILAYER AND CRYSTALLINITY) (Results 15296)
Search 2: ORIENTED near POLYETHYLENE (Results 11864)
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Title: HIGHLY-ORIENTED STRETCHABLE **MULTILAYER** FILM AND PROCESS FOR PRODUCING THE SAME

Abstract: The present invention provides primarily an entirely new type **multilayer** oriented film suited for stretch wrapping, particularly for wrapping of foods. Its features include various excellent characteristics such as mechanical strength, transparency, heat resistance, sealability, stretchability, low temperature resistance, etc. In particular, the present invention concerns a process for producing such a **multilayer** film by cold stretching a **multilayer** containing at least one layer with a specific composition capable of a high degree of cold stretching, which enables simultaneously cold stretching of other layers made of resins which can be or cannot be stretched solely, through its cold stretching force, thereby imparting high strength to all the layers, and further applying a specific heat treatment on the stretched film to modify orientation of the film so as to increase stretchability and to stabilize dimension of the film.

Classifications:

International (IPC 8-9): B29C47/06 B29C55/00 B29C55/12 B32B25/08 B32B27/32 B65D65/40 (Advanced/Invention); B29C47/06 B29C55/00 B29C55/12 B29K21/00 B29K23/00 B29L9/00 B65D65/40 (Advanced/Non-invention); B29C47/06 B29C55/00 B29C55/12 B32B25/00 B32B27/32 B65D65/40 (Core/Invention)

International (IPC 1-7): B29C47/06 B29C55/00 B29C55/12 B29D7/20 B29D7/24 B29K21/00 B29K23/00 B29L9/00 B32B25/08 B32B27/08 B32B27/32 B65D65/40

CPC: Y10S428/91 B32B27/322 Y10T428/2495 Y10T428/2826 Y10T428/31855 Y10T428/31913 Y10T428/3192 Y10T428/31928 Y10T428/31935 B32B27/08 B32B27/18 B32B27/22 B32B2250/05 B32B2307/514 B32B27/32

European: B32B27/32 B32B27/32A

US: 428/213 428/349 428/500 428/516 428/518 428/520 428/522 428/910

Family:

Publication number	Publication date	Application number	Application date
AU198433470 A1	19850418	AU19840033470	19840924
AU3347084 A1	19850418	AU19840033470D	19840924
AU549947 B2	19860220	AU19840033470	19840924
DE3477645 D1	19890518	DE19843477645	19841004
EP0137454 A2	19850417	EP19840111898	19841004
EP0137454 A3	19860611	EP19840111898	19841004
EP0137454 B1	19890412	EP19840111898	19841004
JP1626388 C3	19911128	JP19830187079	19831007
JP2052624 B4	19901114	JP19830187079	19831007
JP60079932 A2	19850507	JP19830187079	19831007
US4619859 A	19861028	US19840654149	19840925

Priority:

JP19830187079 19831007

Probable Assignee: ASAHI KASEI CORP

Assignee(s): (std): ASAHI CHEMICAL IND ; ASAHI KASEI CORP

Assignee(s): ASAHI KASEI KOGYO K K ; ASAHI KASEI KOGYO KABUSHIKI KAISHA ; ASAHI KASEI KOGYO KK

Inventor(s): (std): HATA HIDEO ; HATAKE HIDEO ; YOSHIMURA ISAO

Inventor(s): HIDEO HATA ; ISAO YOSHIMURA

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS

Designated states: DE FR GB IT

Title: HEAT-SEALABLE MULTI-LAYER FILM STRUCTURES AND METHODS OF FORMING THE SAME

Abstract: Multi-layer structures, such as films of low coefficient of friction also having antistick characteristics over a wide temperature range during heat-sealing are disclosed. In accordance with a preferred embodiment, the films comprise an amide-containing polypropylene base layer and two heat sealable skin layers of a low stereoregularity polyolefin and microcrystalline wax. Methods for forming such structures are also disclosed.

Classifications:

International (IPC 8-9): B29C47/02 B29C47/06 B32B27/00 B32B27/32 B65D65/40 (Advanced/Invention);

B29K105/00 B29K23/00 B29L9/00 (Advanced/Non-invention);

B29C47/06 B32B27/32 B65D65/40 (Core/Invention)

International (IPC 1-7): B29C47/02 B29C47/06 B29K105/00 B29K23/00 B29L9/00 B32B27/00 B32B27/32 B65D65/40

CPC: Y10S428/91 Y10T428/2817 Y10T428/2826 Y10T428/31913 B32B27/08 B32B2307/31 B32B2307/746 B32B27/32

European: B32B27/32

US: 428/347 428/349 428/35 428/516 428/910

Family:

Publication number	Publication date	Application number	Application date
AT61543 E	19910315	AT19860300050T	19860107
CA1288569 A1	19910910	CA19860499111	19860107
DE3678002 D1	19910418	DE19863678002	19860107
EP0189242 A2	19860730	EP19860300050	19860107
EP0189242 A3	19880113	EP19860300050	19860107
EP0189242 B1	19910313	EP19860300050	19860107
JP61169245 A2	19860730	JP19860011832	19860122
US4590125 A	19860520	US19850694541	19850124

Priority:

US19850694541 19850124

CA19860499111 19860107

EP19860300050 19860107

EP19860300050 19860107

Probable Assignee: MOBIL OIL CORP

Assignee(s): (std): BALLONI RICCARDO ; MOBIL OIL CORP

Assignee(s): MOBIL OIL CORP NEW YORK N Y US ; MOBIL OIL CORP OF NEW YORK CORP ; KEUNG JAY K

Inventor(s): (std): BALLONI RICCARDO ; KEUNG JAY ; KEUNG JAY K ; RITSUKARUDO BAROONI ; KEUNG JAY KIN ; JIEI KIN KEUN

Inventor(s): BALLONI RICCARDO FAIRPORT NEW YORK 14450 US ; KEUNG JAY KIN MACEDON NEW YORK 14502 US

Agent(s): GOWLING LAFLEUR HENDERSON LLP

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

Title: REFILLABLE POLYESTER BEVERAGE BOTTLE AND PREFORM FOR FORMING SAME

Abstract: A returnable/refillable container in the form of a blow molded polyester biaxially oriented bottle having a physical and structural relationship providing for the maintenance of aesthetic and functional viability over a minimum of twenty trips wherein each trip comprises (1) an empty state caustic wash followed by (2) contaminant inspection and product filling/capping, (3) warehouse storage, (4) distribution to wholesale and retail locations, and (5) purchase, use and empty storage by the consumer followed by return to a bottler. The container is obtained utilizing a specific preform configuration and reheat blow process wherein the sidewall of the resultant container has a percent **crystallinity** of 28-30 at a total preform draw ratio of 7-9/l. The container is formed utilizing recently developed process techniques to optimize strain induced sidewall crystallization.

Classifications:

International (ipc 8-9): B29B11/14 B29C49/00 B29C49/06 B29C49/08 B29C49/64 B65D1/02 H01R13/24 H05K3/40 (Advanced/Invention); B29C49/06 B29K67/00 B29L22/00 (Advanced/Non-invention); B29B11/14 B29C49/00 B29C49/08 B29C49/64 B65D1/02 H01R13/22 H05K3/40 (Core/Invention); B29C49/06 (Core/Non-invention)

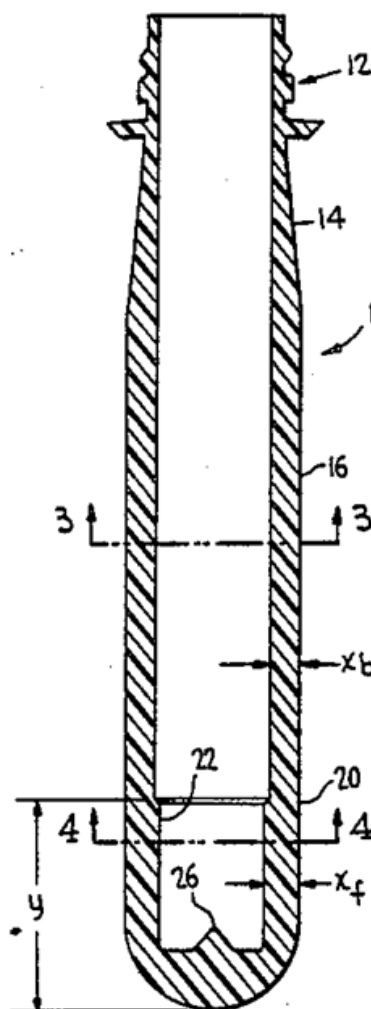
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CPC: Y10T428/1397 Y02W30/805 B29B2911/1433 B29B2911/14331 B29B2911/14332 B29B2911/14336 B29B2911/14337 B65D1/0276 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14053 B29B2911/14066 B29B2911/1408 B29B2911/14093 B29B2911/14106 B29B2911/1412 B29B2911/14133 B29B2911/14146 B29B2911/14326 B29B2911/14333 B29B2911/1444 B29B2911/14466 B29B2911/14486 B29B2911/14493 B29B2911/14633 B29B2911/14693 B29B2911/14713 B29B2911/14753 B29B2911/14906 B29B2911/1498 B29C49/0073 B29C49/06 B29C49/08 B29C49/085 B29C49/6418 B29K2067/00 B29K2667/00 B29K2995/004 B29K2995/0041 B29K2995/0043 B65D1/0223

European: B29C49/00G B29C49/08 B29C49/08B B29C49/64B2 B65D1/02D B65D1/02D2 B65D1/02D2C L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4B L29B911/14B4D L29B911/14B4F L29B911/14B4H L29B911/14B4L L29B911/14B4L2B L29B911/14B4N L29B911/14B4N2B L29B911/14D10D10 L29B911/14D10D10B L29B911/14D10D4D2 L29B911/14D10D4F L29B911/14D2 L29B911/14D4 L29B911/14F2L L29B911/14F4L L29B911/14F6 L29B911/14F6L L29B911/14H2 L29B911/14H8 L29C49/06 L29K667/00 L29K67/00 L29K995/00F3 L29K995/00F4 L29K995/00F4B

US: 215/16 215/1C 215/1L 215/370 215/373 220/606 220/70 428/35 428/36.92 428/542.8

PatBase - US4725464_A



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Publication number	Publication date	Application number	Application date
AT131437 E	19951215	AT19870200669T	19870525
AT157318 E	19970915	AT19870202896T	19870525
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AT69764 E	19911215	AT19870200453T	19870525
AT87272 E	19930415	AT19870107602T	19870525
AU198773680 A1	19871203	AU19870073680	19870529
AU606341 B2	19910207	AU19870073680	19870529
CA1304301 A1	19920630	CA19870537501	19870520
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DE3751635 T2	19960502	DE19873751635T	19870525
DE3751635 T3	20041118	DE19873751635T	19870525
DE3752110 D1	19971002	DE19873752110	19870525
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DE3784965 T3	20021205	DE19873784965T	19870525
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DE8717827 U1	19900927	DE19870017827U	19870525
EP0247566 A2	19871202	EP19870107602	19870525
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EP0247566 B1	19930324	EP19870107602	19870525
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EP0379264 A2	19900725	EP19900200453	19870525
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EP1145968 B1	20031015	EP20010202636	19870525
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IE940201 L	19871130	IE19940000201	19870529
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MX170668 A	19930906	MX19870006687	19870502
MX170668 B	19930906	MX19870006687	19870502
US4725464 A	19880216	US19860868729	19860530
US4755404 A	19880705	US19870012951	19870210

Priority:

US19860868729 19860530	US19870012951 19870210	IE19870000693 19870316
CA19870537501 19870520	CA19870615907 19870520	CA19875375011 19870520
EP19870107602 19870525	EP19910202896 19870525	EP19900200453 19870525
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IE19870001435 19870529		

Probable Assignee: GRAHAM PACKAGING PET TECHNOLOGIES INC

Assignee(s): (std): CONTINENTAL PET TECHNOL INC ; CONTINENTAL PET TECHNOLOGIES ; CONTINENTAL PET TECHNOLOGIES INC ; DIGITAL EQUIPMENT CORP

Assignee(s): GRAHAM PACKAGING CO ; GRAHAM PACKAGING PET TECHNOLOGIES INC ; WILIAN HOLDING COMPANY ; GRAHAM PACKAGING CO LP ; COLLETTE WAYNE N ; CONTINENTAL PET TECHNOLOGIES INC FLORENCE KY US ; CONTINENTAL PET TECHNOLOGIES INC NORWALK CONN US ; DEUTSCHE BANK AG ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH AG ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN CO ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS

Inventor(s): (std): COLETTE WAYNE N ; WAYNE N COLLETTE ; UEIN ENU KORETSUTO ; COLLETTE WAYNE N

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT BE CH DE FR GB IT LI NL

Title: HEAT SHRINKABLE VERY LOW DENSITY POLYETHYLENE TERPOLYMER FILM

Abstract: Biaxially stretched, heat shrinkable monolayer and **multilayer** films comprising very low density polyethylene terpolymers of monomers (a), (b) and (c), where (a) comprises ethylene, (b) comprises a C6-C8 alpha-olefin and (c) comprises 1-butene or 1-hexene, have a very good combination of physical properties and processability including high shrinkage values and puncture resistance.

Classifications:

International (IPC 8-9): B29C55/12 B29C61/06 B32B27/32
C08F210/00 C08F210/02 C08F210/16 C08J5/18
C08L23/08 (Advanced/Invention);
B29C55/12 B29C61/06 B29K105/02 B29K23/00 B29L7/00 B29L9/00
B32B27/32 C08F210/00 (Advanced/Non-invention);
C08L23/00 (Core/Invention)

International (IPC 1-7): B29C55/12 B29C61/06 B29K105/02
B29K23/00 B29L7/00 B29L9/00 B32B27/08 B32B27/32 C08F10/08
C08F110/02 C08F110/14 C08F210/00 C08F210/02 C08J5/18
C08L23/00 C08L23/02 C08L23/08 C08L23/20

CPC: Y10S428/91 C08J5/18 C08F210/16 C08J2323/08 Y10T428/1328
Y10T428/31855 Y10T428/31913 Y10T428/3192 Y10T428/31928

European: C08F210/16 C08J5/18 M08F210/16 M08J323/08

US: 428/34.9 428/349 428/500 428/516 428/518 428/520 428/910
526/348 526/348.1 526/348.2 526/348.4 526/348.5

PatBase - NZ231560_A

END

Family:

Publication number	Publication date	Application number	Application date
AT82306 E	19921115	AT19890123330T	19891216
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AU634991 B2	19930311	AU19890046852	19891219
CA2003882 AA	19900619	CA19892003882	19891124
CA2003882 C	19970107	CA19892003882	19891124
DE68903478 D1	19921217	DE19896003478	19891216
DE68903478 T2	19930408	DE19896003478T	19891216
EP0374783 A2	19900627	EP19890123330	19891216
EP0374783 A3	19900919	EP19890123330	19891216
EP0374783 B1	19921111	EP19890123330	19891216
JP2229835 A2	19900912	JP19890326209	19891218
JP2573527 B2	19970122	JP19890326209	19891218
NZ231560 A	19920326	NZ19890231560	19891128
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US6100357 A	20000808	US19930060783	19930512
US6197909 BA	20010306	US19930060891	19930512

Priority:

US19880286019 19881219	CA19892003882 19891124	EP19890123330 19891216
EP19890123330 19891216	US19920892637 19920602	US19930060783 19930512
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Probable Assignee: BEMIS CO INC

Assignee(s): (std): CURWOOD INC ; VISKASE CORP

Assignee(s): VISKASE CORP CHICAGO ILL US ; SCHUETZ JEFFREY MICHAEL ; LUSTIG STANLEY ; SMITH EDWIN ROGERS ; GENERAL MOTORS EMPLOYEE GLOBAL GROUP PENSION TRUST DEPARTMENT OF PENSIONS CITY OF LOS ANGELES NAVY EXCHANGE SERVICE COMMAND RETIREMENT TRUST RAYTHEON ; BEMIS CO INC ; BISUKEISU CORP ; BT COMMERCIAL COLLATERAL AGENT AS CORP ; BT COMMERCIAL COLLATERAL AGENT CORP AS ; BT COMMERCIAL CORP ; CIT GROUP BUSINESS CREDIT INC ; GENERAL MOTORS EMPLOYEE GLOBAL GROUP PENSION TRUST ; DP KELLY AND ASSOCIATES

Inventor(s): (std): SUTANRII RUSUTEIGU ; JIEFURI MAIKERU SHIYUUTSU ; EDOUIN ROJIYAAZU SUMISU ; SMITH ERWIN ROGERS ; SMITH EDWIN ROGERS ; SMITH EDWIN R ; SCHUETZ JEFFREY MICHAEL ; SCHUETZ JEFFREY M ; LUSTIG STANLEY

Inventor(s): LUSTIG STANLEY PARK FOREST ILLINOIS 60466 US ; SCHUETZ JEFFREY MICHAEL WOODRIDGE ILLINOIS 60517 US ; SCHUETZ JEFFREY MICHAEL WOODRIDGE ILLINOIS 60517 U ; JEFFREY MICHAEL SCHUETZ ; EDWIN ROGERS SMITH ; SMITH ERWIN ROGERS CHICAGO ILLINOIS 60657 US ; EDOIN ROJAAZU SUMISU ; STANLEY LUSTIG ; JEFURI MAIKERU SHUUTSU

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

Designated states: AT BE DE FR GB IT NL SE

Title: BLENDS OF POLYPROPYLENE AND ETHYLENE COPOLYMER AND FILMS MADE FROM THE BLEND

Abstract: A composition of matter comprises a blend of propylene homopolymer or copolymer, and ethylene copolymer. Ethylene vinyl acetate copolymer (EVA), very low density polyethylene (VLDPE), and ethylene alpha olefin copolymer are preferred ethylene copolymers. VLDPE with a high molecular weight (low melt index), and with a broad molecular weight distribution (high flow rate ratio) is preferred. A **multilayer** film comprises a first layer comprising a propylene homopolymer or copolymer, or blend, and at least one outer sealable layer.

Classifications:

International (IPC 8-9): B29C47/04 B32B27/00 B32B27/08 B32B27/32 C08J5/18 C08L23/08 C08L23/10 C08L23/12 C08L23/16 C08L23/20 (Advanced/Invention);

B32B27/00 (Advanced/Non-invention);

B32B27/00 B32B27/32 C08J5/18 C08L23/00 (Core/Invention);

B32B27/32 C08J5/18 C08L23/10 (Core/Non-invention)

International (IPC 1-7): B29C47/04 B29D7/01 B32B27/00

B32B27/08 B32B27/28 B32B27/32 B32B31/30 C08J5/18 C08J5/22

C08L23/00 C08L23/03 C08L23/06 C08L23/08 C08L23/10 C08L23/12

C08L23/14 C08L23/18 C08L31/04

CPC: Y10T428/265 C08J5/18 C08J2323/10 C08L23/0853 C08L23/12

C08L23/16 C08L23/20 C08L2205/03 Y10T428/31913 Y10T428/31917

B32B7/12 B32B27/08 B32B27/22 B32B37/153 B32B2323/046

B32B2331/04 B32B2553/00 B32B27/32 C08L23/0815

European: B32B27/32 C08J5/18 C08L23/08 C08L23/08+B2

C08L23/08A1 C08L23/08A1+B2 C08L23/08C1 C08L23/10

C08L23/10+B2 C08L23/12 C08L23/16 C08L23/20 M08J323/10

M08L205/03 M08L23/08A1 M08L23/08C1 M08L23/12 M08L23/16

US: 428/336 428/516 428/517 525/240

PatBase - US5389448_A

U.S. Patent

Feb. 14, 1995

Sheet 1 of 2

5,389,448

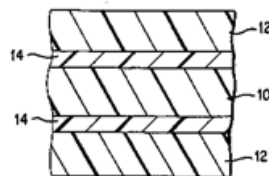


FIG. 1

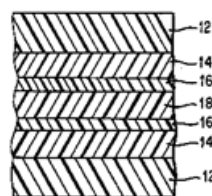


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
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AT185743 E	19991115	AT19910115424T	19910813
AU199182427 A1	19920220	AU19910082427	19910813
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BRPI9103462 A	19920512	BR1991PI03462	19910813
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CA2048296 C	20020924	CA19912048296	19910801
CS9102496 A3	19920415	CS19910002496	19910812
DE69119166 D1	19960605	DE19916019166	19910813
DE69119166 T2	19961121	DE19916019166T	19910813
DE69131731 D1	19991125	DE19916031731	19910813
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EP0474376 A2	19920311	EP19910307438	19910813
EP0474376 A3	19921021	EP19910307438	19910813
EP0474376 B1	19960501	EP19910307438	19910813
EP0700778 A2	19960313	EP19950115424	19910813
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IL99141 A0	19920715	IL19910099141	19910809
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JP4248855 A2	19920904	JP19910202975	19910813
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SG48984 A1	19980518	SG19960004847	19910813
SG66838 A1	20000222	SG19970003429	19910813
TW198051 B	19930111	TW19910106353	19910812
US5389448 A	19950214	US19930042429	19930402

Priority:

US19900566594 19900813

CA19912048296 19910801

US19910659215 19910222

EP19950115424 19910813

CA19912048296 19910801

EP19910307438 19910813

EP19910307438 19910813 EP19910307438 19910813 US19910810003 19911218
US19930042429 19930402

Probable Assignee: CRYOVAC INC

Assignee(s): (std): CRYOVAC INC ; GRACE W R AND CO ; W R GRACE AND CO CONN ; W R GRACE AND CO CONN US

Assignee(s): W R GRACE AND CO CONN NEW YORK N Y US ; WILLIAMS ALLEN C JR ; WR GRACE AND CO ; W R GRACE AND CO CONNUS ; GRACE W R AND CO CONN ; GRACE WR AND CO CONN ; NELSON MARTIN ; SCHIRMER HENRY G ; W R GRACE AND CO ; WR GRACE AND CO CONN

Inventor(s): (std): ALLEN C WILLIAMS JR ; ALLEN WILLIAMS JR ; ARIN SHII UIRIAMUZU JIYUNIA ; HENRII JII SHIIMAA ; HENRY G SCHIRMER ; MAATEIN NERUSON ; MARTIN NELSON ; NELSON MARTIN ; NELSON MARTIN US ; SCHIRMER HENRY G ; SCHIRMER HENRY GEORGE ; SCHIRMER HENRY GEORGE US ; WILLIAMS ALAN CONNEL US ; WILLIAMS ALLEN C ; WILLIAMS ALLEN C JR ; WILLIAMS JR ; WILLIAMS JR ALLEN C ; WILLIAMS ALAN CONNEL ; WILLIAMS ALLEN ; WILLIAMS ALLEN JR ; WILLIAMS ALAN CONNEL

Inventor(s): SCHIRMER HENRY G SPARTANBURG SC 29302 US ; NELSON MARTIN GREER SC 29650 US ; WILLIAMS ALLEN JR SPARTANBURG SC 29303 US

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

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

Title: FILM FORMED FROM POLYETHYLENE-2,6-NAPHTHALATE RESIN, PROCESS FOR PRODUCING SAID FILM AND PACKAGE USING SAID FILM

Abstract: PCT No. PCT/JP94/00951 Sec. 371 Date Apr. 7, 1995 Sec. 102(e) Date Apr. 7, 1995 PCT Filed Jun. 10, 1994 PCT Pub. No. WO94/29374 PCT Pub. Date Dec. 22, 1994 Packaging films for press-through packaging comprise a polyethylene-2,6-naphthalate film having an intrinsic viscosity η_{inh} of 0.31 to 0.6 wherein the film is: (1) stretched in mutually perpendicular directions each with draw ratios of 1 to 3 times; or (2) stretched in the longitudinal direction at draw ratios of 3 to 6 times and in the transverse direction at draw ratios of 1 to 1.8 times. The films have a thickness of 5-150 μm and may be incorporated into multi-layer cover films comprising the polyethylene-2,6-naphthalate film, a barrier layer, a reinforcing layer, and a sealing or adhesive layer.

Classifications:

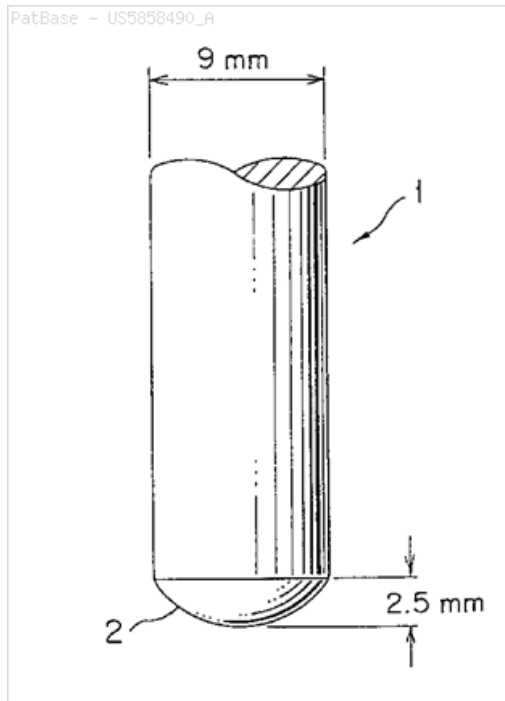
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International (IPC 1-7): B29C55/02 B32B27/06 B32B27/08 B32B27/36 B41M5/00 B65D75/32 C08F20/00 C08G63/189 C08G63/20 C08J5/18 C08L67/02

CPC: Y10S428/91 B29C55/005 B29K2067/00 C08G63/20 C08J2367/02 C08L67/02 Y10T428/1379 Y10T428/1383 Y10T428/24802 Y10T428/24843 Y10T428/266 Y10T428/269 Y10T428/28 Y10T428/2817 Y10T428/31786 B32B7/12 B32B38/0012 B32B38/0036 B32B2038/0028 B32B2307/31 B32B2307/518 B32B2309/02 B32B27/36 B32B27/08 C08J5/18

European: B29C55/00B B29C55/14B B32B27/08 B32B27/36 C08G63/20 C08J5/18 C08L67/02 L29K67/00 M08J367/02 M08L67/02

US: 206/524.6 206/531 206/532 428/195 428/195.1 428/200 428/337 428/339 428/343 428/347 428/36.6 428/36.7 428/480 428/910 525/437 525/444 528/298 528/302 528/308



Family:

Publication number	Publication date	Application number	Application date
DE69428497 D1	20011108	DE19946028497	19940610
DE69428497 T2	20020523	DE19946028497T	19940610
EP0656389 A1	19950607	EP19940917802	19940610
EP0656389 A4	19960515	EP19940917802	19940610
EP0656389 B1	20011004	EP19940917802	19940610
JP3280982 B1	20020513	JP19950501580T	19940610
JP3280982 B2	20020513	JP19950501580T	19940610
JP7179028 A2	19950718	JP19930328089	19931224
KR19950703020 A	19950823	KR19950700514	19940610
US5858490 A	19990112	US19950379655	19950407
US5990248 A	19991123	US19980149656	19980909
WO9429374 A1	19941222	WO1994JP00951	19940610

Priority:

JP19930165169 19930610 JP19930188675 19930702 JP19930328089 19931224
JP19930329089 19931224 WO1994JP00951 19940610

Probable Assignee: DAINIPPON PRINTING CO LTD

Assignee(s): (std): DAINIPPON PRINTING CO LTD ; NIPPON KOKAN KK ; MORI SHINICHIRO ; HASEGAWA KAYO ; HARADA YASUHIRO ; KUMAKI CHIKAO ; INOUE ISAO ; SASADA KATSUHIKO ; YAMAGUCHI MASAHISA ; SUZUURA YASUKI ; YAMASHITA RIKIYA ; SUZUKI TOSHIYUKI ; MITSUBISHI PAPER MILLS LTD

Assignee(s): NKK CORP TOKIO TOKYO ; DAI NIPPON PRINTING C ; DAI NIPPON PRINTING C LTD ; DAI NIPPON PRINTING CO ; DAI NIPPON PRINTING CO LTD ; NKK CORP ; NKK 1 2 MARUNOUCHI 1 CHOMECHUYODA KU TOKYO TO DAI

Inventor(s): (std): YOSHIDA YASUMINE ; YAMASHITA RIKIYA ; YAMAGUCHI MASAHISA ; TOMIMASU HIROSHI ; SUZUURA YASUKI ; SUZUKI TOSHIYUKI ; KOJIMA OSAMU ; INOUE ISAO ; YAMASHITA RIKIYA DAI NIPPON PR ; YAMAGUCHI MASAHISA DAI NIPPON ; SUZUKI TOSHIYUKI DAI NIPPON PR ; SASADA KATSUHIKO ; MORI SHINICHIRO ; KUMAKI CHIKAO ; SUZUURA YASUKI DAI NIPPON PRIN ; INOUE ISAO DAI NIPPON PRINTING ; HASEGAWA KAYO ; HARADA YASUHIRO

Inventor(s): SUZUKI TOSHIYUKI DAI NIPPON PRINTING CO ; INOUE ISAO DAI NIPPON PRINTING CO ; SUZUURA YASUKI DAI NIPPON PRINTING CO ; YAMAGUCHI MASAHISA DAI NIPPON PRINTING CO ; YAMASHITA RIKIYA DAI NIPPON PRINTING CO

Designated states: AT BE CH DE DK ES FR GB GR IE IT JP KR LU MC NL PT SE US

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)

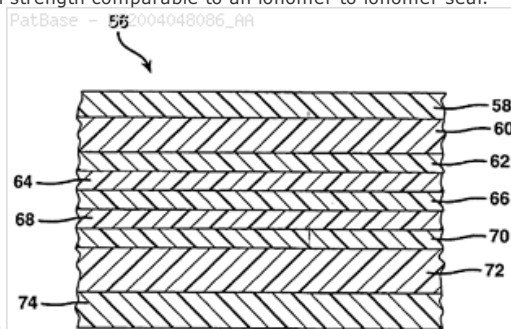
International (IPC 1-7): B32B27/06 B32B27/08 B32B27/32 B65D65/40 B65D75/30 B65D81/34 C08F210/00 C08F210/16 C08J5/18

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
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AT344134 E	20061115	AT19950102796T	19950606
AU199520515 A1	19951214	AU19950020515	19950606
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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
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EP0686497 B1	19991215	EP19950303860	19950606
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NZ272284 A	19971124	NZ19950272284	19950606
US2004048086 AA	20040311	US20030649538	20030827
US2007166491 AA	20070719	US20060408584	20060421
US6682825 BA	20040127	US19940254345	19940606
US7056593 BB	20060606	US20030649538	20030827
US7611770 BB	20091103	US20060408584	20060421

Priority:

US19940254345 19940606 CA19952151025 19950605 CA19952553417 19950605
EP19950303860 19950606 US20030649538 20030827 US20060408584 20060421

Probable Assignee: CRYOVAC INC

Assignee(s): (std): CRYOVAC INC ; GRACE W R AND CO ; KENNEDY THOMAS D ; WATSON RICHARD K ; SHARPS GORDON V JR

Assignee(s): WR GRACE AND CO CONN ; WR GRACE AND CO ; W R GRACE AND CO CONN ; WATSON RICHARD KEITH ; SHARPS GORDON VINCENT ; SHARPS GORDON VINCENT JR ; KENNEDY THOMAS DUANE

Inventor(s): (std): KENNEDY THOMAS DUANE ; THOMAS DUANE KENNEDY ; WATSON RICHARD KEITH ; WATSON RICHARD K ; SHARPS GORDON VINCENT ; SHARPS JR GORDON VINCENT ; SHARPS GORDON V JR ; KENNEDY THOMAS D ; SHARPS GORDON VINCENT JR

Inventor(s): KENNEDY THOMAS ; THOMAS D KENNEDY ; RICHARD K WATSON ; GORDON V SHARPS JR ; SHARPS GORDON ; SHARPS GORDON VJR ; WATSON RICHARD ; RICHARD KEITH WATSON ; SHARPS ; GORDON VINCENT SHARPS JR ; JR GORDON VINCENT

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; SEALED AIR CORP; RUPERT B

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

Title: BARRIER FILMS

Abstract: A multiple-layer composite film comprising: a layer comprising a polymeric base film (12), a barrier layer (13) comprising a carbon-rich material adhered to the base layer, and a heat sealable layer (14) comprising a heat sealable, active gas treated, polymeric material containing ethylene monomeric units adhered to the carbon-rich barrier layer (13).

Classifications:

International (IPC 8-9): B32B27/08 B65D30/08

B65D53/04 (Advanced/Invention);

B32B27/08 B65D30/08 B65D53/00 (Core/Invention)

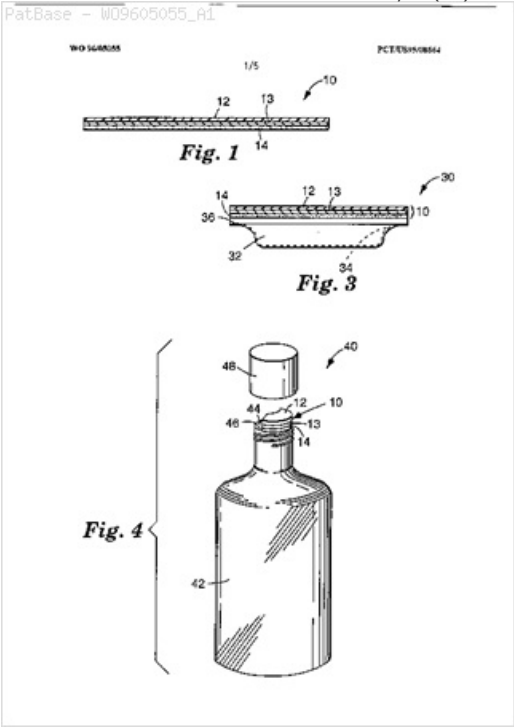
International (IPC 1-7): B05D3/14 B05D7/24 B32B27/08 B65D65/40 C08J7/06

CPC: B32B1/02 B32B7/12 B32B27/32 B32B27/36 B32B38/0008

B32B2307/31 B32B2307/7244 B32B2307/7246 B32B2310/14

B32B2323/046 B32B2439/46 B32B27/08 B65D31/02 B65D53/04

European: B32B27/08 B65D31/02 B65D53/04



Family:

Publication number	Publication date	Application number	Application date
AU199529686 A1	19960307	AU19950029686	19950712
WO9605055 A1	19960222	WO1995US08664	19950712

Priority:

US19940291025 19940816 WO1995US08664 19950712

Probable Assignee: 3M CO

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

Assignee(s): MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MANUFACTURING COMPANY

Inventor(s): (std): OU YANG DAVID T

Inventor(s): DAVID T OU YANG

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 IS IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

Title: CELLULOSIC WEB WITH A CONTAMINANT BARRIER OR TRAP

Abstract: Nonwoven cellulosic fiber webs such as, for example, paperboards and corrugated paper boards are described containing a barrier layer that can act both as a barrier to the passage of contaminants and as a trap for contaminant materials that can arise in new materials or from the recycle of fiber in the manufacture of paperboard. The effective material which acts as a trap or barrier is a cyclodextrin compound, substantially free of an inclusion complex compound. The cyclodextrin barrier layer can be corrugated or sheet laminated with or on the cellulosic web. Alternatively, the cyclodextrin material can be included in a coating composition that is coated on the surface or both surfaces of the cellulosic web after web formation. Further, the cyclodextrin material can be included in a thermoplastic film that can be used as one layer in a bilayer or **multilayer** laminate containing a cellulosic web.

Classifications:

International (IPC 8-9): A23L1/00 A23L3/00 B01D69/14 B01D71/08 B29C47/00 B32B23/08 B32B23/22 B32B27/08 B32B27/10 B32B27/32 B32B29/00 B32B5/02 B32B5/24 B65D1/02 C08B37/00 C08B37/16 C08J5/18 C08L1/00 C08L101/00 C08L23/00 C08L23/08 C08L27/04 C08L33/00 C08L5/16 C08L67/02 C08L97/02 D04H13/00 D21H17/20 D21H17/24 D21H19/24 D21H19/84 D21H27/00 D21H27/10 D21H27/30 (Advanced/Invention); D21H19/20 D21H19/24 D21H19/34 D21H19/84 D21H27/10 (Advanced/Non-invention); D21H19/00 D21H27/10 (Core/Invention)

International (IPC 1-7): B32B23/08 B32B27/00 B32B27/06 B32B27/10 B32B27/32 B32B29/00 B32B5/02 C08B37/16 D04H13/00 D21H17/20 D21H17/24 D21H19/24 D21H19/84 D21H27/00 D21H27/10 D21H27/30

CPC: Y10T442/2057 Y10T442/2066 Y10T442/209 Y10T442/2508 Y10T442/674 B32B27/08 C08L1/00 B01D69/141 B01D71/08 B65D1/0207 C08J5/18 C08L67/02 C08L97/02 C08L101/00 B29C47/0021 B29C47/0026 C08B37/0015 C08L5/16 C08L23/08 D21H19/20 D21H19/34 Y02W90/11 B32B5/022 B32B27/304 B32B27/32 B32B2323/04 B32B2327/06 B32B2439/70 B32B27/10 D21H27/10

European: B32B27/08 L29C47/00J7 M08L5/16 N21H19/20 N21H19/34

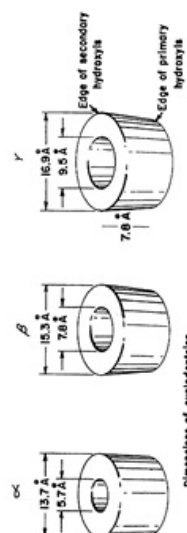
US: 442/121 442/394 442/66 442/67 442/70 524/48

PatBase - US5776842_A

U.S. Patent

Jul. 7, 1998

5,776,842



Family:

Publication number	Publication date	Application number	Application date
AT212396 E	20020215	AT19970906672T	19970220
AT227215 E	20021115	AT19990917438T	19990413
BRPI9707860 A	19990727	BR1997PI07860	19970220
BRPI9912515 A	20010502	BR1999PI12515	19990413
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DE69903817 D1	20021212	DE19996003817	19990413
DE69903817 T2	20030703	DE19996003817T	19990413
DK0888480 T3	20020506	DK19970906672T	19970220
DK1094940 T3	20021230	DK19990917438T	19990413
EP0888480 A1	19990107	EP19970906672	19970220
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EP1094940 A1	20010502	EP19990917438	19990413
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ES2171890 T3	20020916	ES19970906672T	19970220
ES2187152 T3	20030516	ES19990917438T	19990413
HK1017398 A1	20020830	HK19990102305	19990524
HK1038209 A1	20030606	HK20010107693	20011102
JP2001503340 T2	20010313	JP19970531785T	19970220
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JP4697989 B2	20110608	JP19970531785	19970220
JP4860041 B2	20120125	JP20000557954T	19990413
KR100515786 B1	20060127	KR19980706620	19980820
KR100639670 B1	20061030	KR20017000236	19990413
KR19990087223 A	19991215	KR19980706620	19970220
KR20010071769 A	20010731	KR20017000236	19990413
MXPA01000838 A1	20020604	MX2001PA00838	19990413

PT1094940 T	20030331	PT19990917438T	19990413
PT888480 T	20020731	PT19970906672T	19970220
TW403800 B	20000901	TW19970103526	19970320
TW446785 B	20010721	TW19990110344	19990621
US5776842 A	19980707	US19960603337	19960220
US5985772 A	19991116	US19980111263	19980706
WO0001527 A1	20000113	WO1999US08017	19990413
WO9733044 A1	19970912	WO1997US02580	19970220

Priority:

US19940264771 19940623	US19960333796P 19960220	US19960603337 19960220
US19960603337 19960220	WO1997US02580 19970220	US19980111263 19980706
KR19980706620 19980820	WO1999US08017 19990413	KR20017000236 20010106

Probable Assignee: CELLRESIN TECHNOLOGIES LLC

Assignee(s): (std): CELLRESIN TECH LLC

Assignee(s): CELLRESIN TECHNOLOGIES LLC ; WOOD WILLARD E ; BEAVERSON NEIL J

Inventor(s): (std): WOOD WILLARD E ; WOOD W E ; WOOD E ; BEAVERSON NIEL J ; BEAVERSON NEIL J ; BEAVERSON N J ; BEAVERSON J

Inventor(s): WILLARD E WOOD ; WE WOOD ; W E WOOD ; NJ BEAVERSON ; NIEL J BEAVERSON ; NEIL J BEAVERSON ; N J BEAVERSON

Agent(s): GOUDREAU GAGE DUBUC ; LAVERY DE BILLY LLP; BORDEN LADNER GERVAIS LLP

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

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:

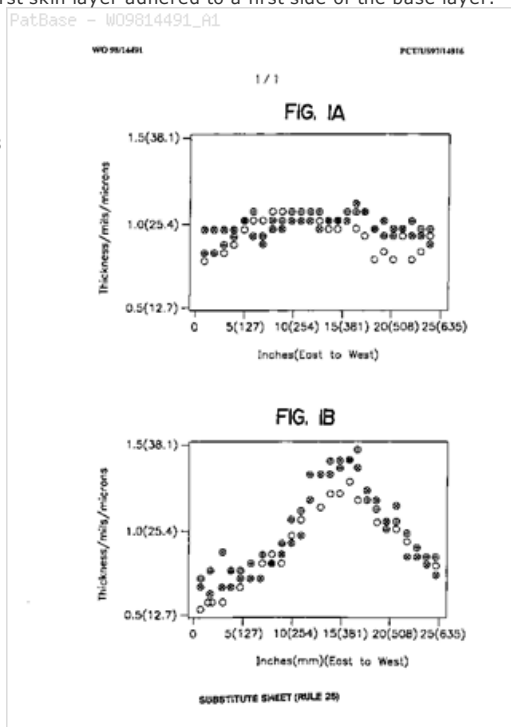
International (IPC 8-9): B29C55/02 B29C55/12 B32B27/00 B32B27/08 B32B27/32 C08F10/02 C08F210/00 C08J5/18 C08J7/04 C08L23/04 C08L23/06 (Advanced/Invention); B29C55/02 B29C55/12 B29K23/00 B29L7/00 B32B27/08 C08F210/00 (Advanced/Non-invention); B29C55/02 B29C55/12 B32B27/08 B32B27/32 C08F210/00 C08J5/18 C08L23/00 (Core/Invention); B32B27/32 (Core/Non-invention)

International (IPC 1-7): B29C55/02 B29C55/02 B29C55/12 B32B1/14 B32B27/00 B32B27/04 B32B27/08 B32B27/32 B32B3/26 B32B31/00 B32B31/30 B32B7/02 C07D403/04 C08F10/02 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



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Publication number	Publication date	Application number	Application date
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AR017156 AA	20010822	AR1998P104810	19980925
AR023871 AA	20020904	AR2000P102190	20000505
AU199740866 A1	19980424	AU19970040866	19970825
AU199890250 A1	19990423	AU19980090250	19980820
AU200048202 A1	20001117	AU20000048202	20000504
AU200048202 A5	20001117	AU20000048202D	20000504
AU715460 B2	20000203	AU19970040866	19970825
AU742326 B2	20011220	AU19980090250	19980820
BRPI9712483 A	19991019	BR1997PI12483	19970825
BRPI9812091 A	20011218	BR1998PI12091	19980820
CA2267885 AA	19990406	CA19972267885	19970825
CA2267885 C	20071113	CA19972267885	19970825
CA2305391 AA	20000331	CA19982305391	19980820
CL1997002080 A1	19980605	CL19970002080	19971003
CL1998002215 A1	19990408	CL19980002215	19980910
CN1232475 A	19991020	CN19971098552	19970825
CN1278764 A	20010103	CN19988011126	19980820
DE69719772 D1	20030417	DE19976019772	19970825
DE69719772 T2	20030904	DE19976019772T	19970825
DE69827973 D1	20050105	DE19986027973	19980820
DE69827973 T2	20051222	DE19986027973T	19980820
EP0929583 A1	19990721	EP19970938570	19970825
EP0929583 A4	19991229	EP19970938570	19970825
EP0929583 B1	20030312	EP19970938570	19970825
EP1037742 A1	20000927	EP19980942131	19980820
EP1037742 A4	20020911	EP19980942131	19980820
EP1037742 B1	20041201	EP19980942131	19980820
ES2195166 T3	20031201	ES19970938570T	19970825
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ID25886 A	20001109	ID20000000789	19980820
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US6764751 BB	20040720	US19990305760	19990505
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WO9916617 A1	19990408	WO1998US17219	19980820

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

Inventor(s): (std): J A LARTER ; JOHN ALAN LARTER ; LARTER J A ; LARTER JOHN A ; PIORIER R V ; POIRER ROBERT V ; POIRIER R V ; R V PIORIER ; R V POIRIER ; TIEN KUEISU ; POIRIER ROBERT VICTOR ; POIRIER ROBERT VICOR ; POIRIER ROBERT V ; LARTER JOHN ALAN ; TIEN KUEI SU ; POIRIER VICTOR ; LARTER ALAN ; ROBERT VICTOR POIRIER ; S TIEN KUEL ; SU TIEN KUEI ; TIEN KUEL S

Inventor(s): Larter ; John Alan ; ROBERT V POIRER ; Robert V. ; Poirier

Agent(s): PHILLIPS ORMONDE FITZPATRICK; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BORDEN LADNER GERVAIS LLP; SARGENT

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

Title: BIAXIALLY **ORIENTED POLYETHYLENE** FILM WITH IMPROVED OPTICS AND SEALABILITY PROPERTIES

Abstract: Methods of preparing biaxially **oriented polyethylene** films with improved optics and sealability properties are provided. The methods include stretching in the machine direction a multi-layer base sheet having a core layer with a first and a second side, at least one skin layer and outer surfaces; then coating at least one of the outer surfaces with a resin selected from the group consisting of low density polyethylene, very low density polyethylene, linear low density polyethylene and blends thereof, and finally, stretching the base sheet in a direction transverse to the machine direction.

Classifications:

International (IPC 8-9): B05D1/00 B05D1/26 B05D1/36 B05D3/12 B05D7/04 B05D7/24 B29C55/02 B29C55/14 B32B27/32 B32B33/00 B32B37/15 (Advanced/Invention);

B05D1/26 B05D1/36 B05D7/24 B29K23/00 B29L7/00 B32B37/15 (Advanced/Non-invention);

B05D1/36 B05D3/12 B05D7/04 B05D7/24 B29C55/02 B29C55/14 B32B27/32 (Core/Invention);

B05D1/26 B32B37/14 (Core/Non-invention)

International (IPC 1-7): B05D1/00 B05D1/36 B05D3/12 B05D7/24 B29C55/14 B29K23/00 B29L7/00 B32B27/08 B32B27/32 B32B31/16

CPC: Y10S428/91 B05D1/265 B05D3/12 B05D7/04 B29C55/023 B29K2023/06 Y10T428/31909 Y10T428/31913 B32B27/08

B32B2323/043 B32B2323/046 B32B27/32 B32B37/153 B32B38/00 B32B2038/0028 B32B2307/40 B32B2307/518

European: B05D3/12 B05D7/04 B29C55/02B B32B27/32 B32B31/00D B32B38/00 L05D1/26C L29K23/06 L32B307/400

L32B307/518 L32B31/00D15 L32B31/30 L32B37/15B L32B38/00C8

US: 156/244.23 156/244.24 264/173.14 264/173.15 264/173.19 264/290.2 427/173 427/358 427/412.3 428/515 428/516 428/910

Family:

Publication number	Publication date	Application number	Application date
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AU200017164 A5	20000731	AU20000017164	19991110
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JP2002533237 T2	20021008	JP20000590786T	19991110
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US6168826 BA	20010102	US19980220983	19981223
WO0038843 A1	20000706	WO1999US26470	19991110

Priority:

US19980220983 19981223 WO1999US26470 19991110

Probable Assignee: MOBIL OIL CORP

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

Assignee(s): POIRIER ROBERT V ; SU TIEN KUEI

Inventor(s): (std): POIRER ROBERT V ; POIRIER ROBERT V ; SU TIEN KUEI ; TIEN KUEI SU ; ROBERT V POIRIER

Inventor(s): POIREIER ROBERT V ; SU TIEN KUEI POIREIER ROBERT V

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; SARGENT; OKADA NORIKO; YAMASAKI YUKUZO; KANAYAMA MASATAKA

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

Title: COMPOSITE ARTICLES REINFORCED WITH HIGHLY ORIENTED MICROFIBERS

Abstract: A composite formed of a polymer matrix phase having a reinforcement phase including polymeric microfibers. The microfibers are preferably formed of a highly oriented polymer, having a high modulus value and a large surface area. The large surface area can serve to tightly bind the microfibers to the polymer matrix phase. The microfibers can be provided as a fully- or partially- microfibrillated film, as a non-woven web of entangled microfibers, or as a pulp having free fibers. The microfibers can be embedded in, or impregnated with, a polymer or polymer precursor. Some composite articles are formed from thermoset resins cured about a highly oriented polypropylene microfiber reinforcement phase, providing a strong, tough, moisture resistant article. One composite includes a matrix and reinforcement formed of the same material type and having substantially equal refractive indices, allowing the composite to be optically clear.

Classifications:

International (IPC 8-9): B29C43/20 B29C70/14 B32B27/00 B32B5/26 C08J5/04 C08J9/00 C08K7/02 C08L101/00 D01D5/42 D02G3/02 (Advanced/Invention); B29K105/10 C08J9/00 D01D5/42 D02G3/02 (Advanced/Non-invention)

International (IPC 1-7): B06B1/20 B27N3/10 B29C43/20 B29C55/06 B29C69/00 B29D9/00 B32B27/00 B32B27/04 B32B27/12 B32B5/02 C08J5/04 C08J9/00 C08K7/02 C08L101/00 D01D5/42 D01F6/00 D02G3/02 D04H1/00 D04H3/00

CPC: Y10T428/2904 Y10T428/2973 Y10T428/2976 Y10T428/298 Y10T428/24355 Y10T428/2913 Y10T428/2924 Y10T428/2929 D04H13/02 Y10T428/24994 Y10T442/613 B32B5/022 B32B27/32 B32B27/36 B32B38/0008 B32B2255/02 B32B2255/26 B32B2260/021 B32B2262/0253 B32B2305/20 B32B2307/412 B32B2310/0445 B32B2310/14 B32B2323/10 B32B2367/00 B32B5/26 D01D5/423

European: B32B5/26 D01D5/42B D04H13/02

US: 156/307.1 156/307.3 264/147 264/147S 264/154 264/154S 264/210.2 264/210.8 264/210.800S 264/211.13 264/216 264/216S 264/236 264/257 264/257P 264/258 264/324 264/324S 264/442 264/442S 264/444 264/504 264/504S 264/80 428/141 428/297.4 428/359 428/364 428/370 428/373 428/397 428/397P 428/399 428/401 428/401S 442/339 442/339P

PatBase - US2001031594_AA

Patent Application Publication Oct. 18, 2001 Sheet 1 of 2 US 2001/0031594 A1



100 μm

Fig. 1**Family:**

Publication number	Publication date	Application number	Application date
AT324256 E	20060515	AT20020703342T	20020206
AU199960173 A1	20000825	AU19990060173	19990507
AU199960173 A5	20000825	AU19990060173	19990507
AU2002236969 AA	20021003	AU20020236969	20020206
AU209960173 A1	20000825	AU19990060173	19990507
AU749413 B2	20020627	AU19990060173	19990507
BRPI9917032 A	20020129	BR1999PI17032	19990507
CA2361753 AA	20010723	CA19992361753	19990507
CN1334886 A	20020206	CN19998016038	19990507
DE60210935 D1	20060601	DE20026010935	20020206
DE60210935 T2	20061221	DE20026010935T	20020206
DE69926404 D1	20050901	DE19996026404	19990507
DE69926404 T2	20060518	DE19996026404T	19990507
EP1161576 A1	20011212	EP19990973663	19990507
EP1161576 B1	20050727	EP19990973663	19990507
EP1368191 A2	20031210	EP20020703342	20020206
EP1368191 B1	20060426	EP20020703342	20020206
JP2002536558 T2	20021029	JP20000597490T	19990507
JP2004533498 T2	20041104	JP20020573226T	20020206
KR20010101995 A	20011115	KR20017009865	19990507
US2001031594 AA	20011018	US20010809446	20010315
US2001053443 AA	20011220	US20010829281	20010409
US2004012118 AA	20040122	US20030618961	20030714
US6110588 A	20000829	US19990245952	19990205
US6432347 BA	20020813	US20000595982	20000616
US6432532 BB	20020813	US20010829281	20010409
US6630231 BB	20031007	US20010809446	20010315
US7014803 BB	20060321	US20030618961	20030714
WO0046435 A1	20000810	WO1999US10136	19990507
WO02074533 A2	20020926	WO2002US03320	20020206
WO02074533 A3	20021114	WO2002US03320	20020206

Priority:

US19990245952 19990205	WO1999US10136 19990507	US20000595982 20000616
US20010809446 20010315	US20010829281 20010409	WO2002US03320 20020206
US20030618961 20030714		

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M CO MINNESOTA MINING AND MFG COMPANY ; 3M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIES COMPANY

Assignee(s): MINNESOTA MINING AND MFG ; MINNESOTA MINING AND MFG CO ; SWAN MICHAEL D ; PEREZ MARIO A ; LOUKS JOHN W ; 3M INNOVATIVE PROPERTIES CO SAINT PAUL ; 3M INNOVATIVE PROPERTIES CO ST PAUL

Inventor(s): (std): JW LOUKS ; LOUKS J W ; LOUKS JOHN WEAVER ; MA PEREZ ; MARIO A PEREZ ; ALLEN R SIEDLE ; JOHN W LOUKS ; MD SWAN ; MICHAEL D SWAN ; PEREZ M A ; PEREZ MARIO ALBERTO ; SWAN M D ; SWAN MICHAEL DAVID ; TERRY R HOBBS ; SWAN MICHAEL D ; SWAN D ; SIEDLE R ; SIEDLE ALLEN R ; PEREZ MARIO A ; PEREZ A ; LOUKS W ; LOUKS JOHN W ; HOBBS TERRY R ; HOBBS R

Inventor(s): J W LOUKS ; M D SWAN ; M A PEREZ ; MICHAEL DAVID SWAN ; JOHN WEAVER LOUKS ; MARIO ALBERTO PEREZ

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; NISHIYAMA MASAYA; ISHIDA TAKASHI; TSURUTA JUNICHI; HIGUCHI SOTOJI; FUKUMOTO TSUMORU; KENT S

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

Title: Physical improvements in coated monofilament dental tapes

Abstract: Disclosed are coated monofilament dental tapes with physical improvements including patient-friendly edges and self-indicating releasable coatings.

Classifications:

International (IPC 8-9): A45D44/18 A46B3/04 A46B5/00 A46B9/04

A61C15/00 A61C15/04 A61C17/00 A61C5/00 A61F13/00 A61K

A61K6/00 A61K8/00 A61K8/02 A61K8/06 A61K8/18 A61K8/21

A61K8/25 A61K8/31 A61K8/34 A61K8/35 A61K8/42 A61K8/43

A61K8/49 A61K8/73 A61K8/81 A61K8/89 A61K8/92 A61K8/96

A61K8/97 A61K9/20 A61K9/68 A61K9/70 A61P1/02 A61Q11/00 B01J13/00 B05D3/12 B29C55/02 C08J5/18 C08J7/04

C08L23/06 D01D4/02 D01F6/82 D02G3/00 D06M11/45 D06M11/71 D06M11/76 D06M11/77 D06M11/79 D06M13/00

D06M15/00 D06M15/53 D06M23/08 (Advanced/Invention);

B29L7/00 B29L9/00 D06M101/18 (Advanced/Non-invention);

A45D44/00 A46B3/00 A46B5/00 A46B9/00 A61C15/00 A61C17/00 A61C5/00 A61F13/00 A61K6/00 A61K8/00 A61K8/02

A61K8/04 A61K8/18 A61K8/19 A61K8/30 A61K8/72 A61K8/96 A61K9/20 A61K9/68 A61K9/70 A61Q11/00 B01J13/00

B05D3/12 B29C55/02 D01D4/00 D01F6/78 D02G3/00 (Core/Invention);

A61C (Subclass/Invention)

International (IPC 1-7): A45D44/18 A46B9/04 A61C015/04 A61C015/04 A61C15/00 A61C15/04 A61K6/00 A61K7/00

A61K7/16 A61K7/18 A61K9/00 A61K9/70 A67C15/00 B29C55/02 C08J5/18 C08K5/05 C08L23/06 C08L47/00 C08L91/06

D01D4/02 D01F6/82 D06M13/00 D06M15/53

CPC: A61K8/25 A61K8/965 A61K8/8111 A61C15/02 A61K8/86 A61C15/04 A61K8/06 A61K8/4973 A61K8/4993 D01F6/82

D06M15/53 A61K8/02 A61K8/0216 A61K8/11 A61K8/731 A61K8/97 A61K2800/56 A61K2800/70 A61K8/347 A61K8/43

A61C15/00 A61K8/0208 A61K8/21 A61K9/2086 A61K9/7007 A61Q11/00 A61C15/041

European: A61C15/00 A61C15/04 A61C15/04B A61K6/00 A61K7/16P A61K8/02 A61K8/02C A61K8/02M A61K8/06

A61K8/11 A61K8/21 A61K8/25 A61K8/34F A61K8/43 A61K8/49H A61K8/49P A61K8/73C A61K8/81C2 A61K8/86 A61K8/96C

A61K8/97 A61K9/20K4 A61K9/70B A61Q11/00 D01F6/82 D06M15/53 K61C15/02 K61C15/04B K61K201/08 K61K201/09

K61K201/107 K61K201/113 K61K201/115 K61K201/117 K61K201/119 K61K201/40 K61K800/56 K61K800/70

US: 132/321 132/321S 132/323 132/323S 424/401 424/405 424/443 424/48 424/48P 424/49 424/49P 424/49S 424/52

424/52S 427/2.14 427/2.140S 433/217.1 433/217.100S 524/277 524/386 524/487 524/487S 525/88 525/88S 525/92.00A

525/92A 525/92R 525/93

PatBase - US2002083956_AA



Family:

Publication number	Publication date	Application number	Application date
AU2001286633 AA	20020806	AU20010286633	20010823
AU2001286633 BB	20050609	AU20010286633	20010823
AU2001286660 AA	20021021	AU20010286660	20010823
AU2001286684 AA	20020304	AU20010286684	20010823
AU2001286684 BB	20050714	AU20010286684	20010823
AU2001286685 AA	20020304	AU20010286685	20010823
AU2001286685 BB	20041111	AU20010286685	20010823
AU200186684 A1	20020304	AU20010086684	20010823
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AU200186685 A1	20020304	AU20010086685	20010823
AU200186685 A5	20020304	AU20010086685	20010823
AU2002227247 AA	20020618	AU20020227247	20011204
AU200227247 A1	20020618	AU20020027247	20011204
AU200227247 A5	20020618	AU20020027247	20011204
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AU2002346699 BB	20061221	AU20020346699	20021211
AU2003287347 AA	20040729	AU20030287347	20031030
AU2003291664 A	20040729	AU20030291664	20031030
BRPI0215302 A	20050830	BR2002PI15302	20021211
BRPI0312978 A	20050614	BR2003PI12978	20031030
BRPI0316834 A	20051018	BR2003PI16834	20031030
CA2419651 AA	20030221	CA20012419651	20010823
CA2419727 AA	20030220	CA20012419727	20010823
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CA2442306 AA	20030925	CA20012442306	20010823
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EP1311205 A1	20030521	EP20010966147	20010823
EP1311206 A1	20030521	EP20010966148	20010823
EP1311206 A4	20080102	EP20010966148	20010823
EP1359862 A1	20031112	EP20010966092	20010823
EP1372523 A2	20040102	EP20010966120	20010823
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EP1474092 A4	20051012	EP20020784770	20021211
ES2524593 T3	20141210	ES20010966120T	20010823
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GB200506110 A0	20050504	GB20050006110	20031030
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Priority:

US20000227196P 20000823	US20000227239P 20000823	US20000227240P 20000823
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Probable Assignee: WHITEHILL ORAL TECHNOLOGIES INC

Assignee(s): (std): DALE G BROWN ; HILL IRA ; HILL IRA D ; INTERNAT TAPE PARTNERS LLC ; PERI DENT LTD ; HILL JAMES MCKENZIE ; PERI DEAT LTD ; INT TAPE PARTNERS LLC ; BARLOW DAVID ; BROWN DALE ; BROWN DALE G ; DALE BROWN ; LEPPLE ROBERT C ; WHITE ROBERT D ; ROBERTS IAN ; SCHWEIGERT MICHAEL ; SCHWEIGERT MICHAEL R ; WHITEHILL ORAL TECH INC

Assignee(s): WHITEHILL ORAL TECHNOLOGIES INC ; PERI DENT LTD GALASHIELS ; INT TAPE PARTNERS LLC 12701 EXECUTIVE DRIVE SUITE 614 ; ROBERT D WHITE ; INTERNATIONAL TAPE PARTNERS LLC ; PERI DENT LIMITED ; PERI DEAT LIMITED ; IRA D HILL ; IRA HILL

Inventor(s): (std): MICHAEL R SCHWEIGERT ; LEPPLE ROBERT C ; IRA D HILL ; HILL JAMES MCKENZIE ; HILL IRA D ; DALE G BROWN ; BROWN DALE G ; BROWN DALE ; BARLOW DAVID ; SCHWEIGERT MICHAEL ; SCHWEIGERT MICHAEL R ; WHITE ROBERT D ; ROBERTS IAN

Inventor(s): ROBERT D WHITE ; HILL IRA ; LEPPLE ROBERT ; ROBERTS IAN TWEEDBANK ; HILL JAMES MCKENZIE TWEEDBANK ; HILL IRA D LOCUST ; BROWN DALE G WHARTON ; BARLOW DAVID TWEEDBANK

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; SMART AND BIGGAR; RICHES MCKENZIE AND HERBERT LLP; RIDOUT AND MAYBEE LLP; PATENTANWAELTE MAGENBAUER AND KOLLEGEN PARTNERSCHAFT MBB; PARNHAM KEVIN; CURELL MIREIA; CLT PATENT AND TRADEMARK HK LTD UNIT 10 34 F OFFICE TOWER CONVENTION; HITOSHIO AKIO; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO; BANNER AND WITCOFF LTD; LINEK ERNEST V

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 YU ZA ZM ZW

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

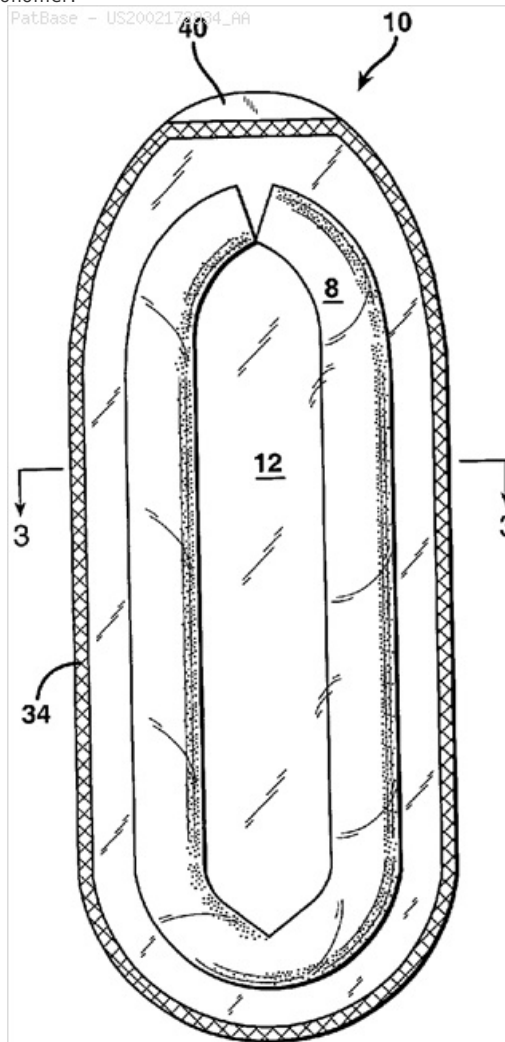
Y10T428/31902 Y10T428/31909 B32B7/06 B32B2435/02

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

**Family:**

Publication number	Publication date	Application number	Application date
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AU2002247041 AA	20020819	AU20020247041	20020129
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DE60212572 T2	20070628	DE20026012572T	20020129
EP1358068 A2	20031105	EP20020714796	20020129
EP1358068 B1	20060621	EP20020714796	20020129
ES2266468 T3	20070301	ES20020714796T	20020129
US2002172834 AA	20021121	US20010777240	20010205
US6630237 BB	20031007	US20010777240	20010205
WO02062575 A2	20020815	WO2002US02613	20020129
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Priority:

US20010777240 20010205 WO2002US02613 20020129 WO2002US02613 20020129

Probable Assignee: CRYOVAC INC

Assignee(s): (std): CRYOVAC INC ; HAHM DIANE M ; RIVETT JANET W ; TANNY STEPHEN R

Inventor(s): (std): HAHM DIANE M ; RIVETT JANET W ; TANNY STEPHEN R ; TANNY R ; RIVETT W ; HAHM M

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 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 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 ZM ZW

Title: MULTI-LAYER, WHITE CAVITATED BIORIENTED POLYETHYLENE FILM WITH A HIGH WATER VAPOR TRANSMISSION RATE

Abstract: The present invention relates to bioriented polyethylene films having high water vapor transmission rates (WVTR) and methods for preparing the same. The film comprises a base layer and skin layers. The base layer comprises highly cavitating polyethylene, such as medium density polyethylene (MDPE) or high density polyethylene (HDPE). The cavitating agent in the base layer may be calcium carbonate. At least one skin layer comprises (i) a copolymer of ethylene and at least one other monomer and (ii) a hydrocarbon resin, such as a cyclopentadiene resin. This copolymer (i) may be an ethylene-propylene copolymer or an ethylene-propylene-butene-1 terpolymer. The film may have unidirectional tear properties in the machine direction. This film is particularly useful for packaging food products, such as pieces of candy.

Classifications:

International (IPC 8-9): B29C55/00 B29C55/02 B32B27/18 B32B27/32 C08L23/16 (Advanced/Invention);

B29C47/06 C08L45/00 (Advanced/Non-invention);

B29C55/00 B29C55/02 B32B27/18 B32B27/32 C08L23/00 (Core/Invention);

B29C47/06 C08L45/00 (Core/Non-invention)

International (IPC 1-7): B29C47/06 B32B27/06 B32B27/08 B32B27/18 B32B27/32 B32B3/26

CPC: Y10S428/91 B29C55/005 B29C47/0021 B29C47/06 B29C55/023 B29K2023/06 B29K2023/0641 B29K2105/04

B29K2105/16 B32B27/18 B32B27/32 B32B2038/0028 B32B2305/30 B32B2307/518 B32B2307/724 B32B2323/04

B32B2553/00 C08L23/16 C08L45/00 Y10T428/249953 Y10T428/249986 Y10T428/249988 Y10T428/249989 Y10T428/249993

Y10T428/31909 Y10T428/31913 Y10T428/31938

European: B29C55/00B B29C55/02B B32B27/18 B32B27/32 C08L23/16 L29C47/06 L29K105/04 L29K105/16 L29K23/06

L29K23/06B7 L32B305/30 L32B307/518 L32B307/724 L32B31/00D15 L32B323/04 L32B38/00C8 L32B553/00 M08L23/16

M08L45/00

US: 264/173.12 264/173.14 264/173.15 264/173.16 264/173.19 428/304.4 428/317.9 428/318.6 428/318.8 428/319.9

428/515 428/515P 428/516 428/523 428/523S 428/910

Family:

Publication number	Publication date	Application number	Application date
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EP1439956 A1	20040728	EP20020749932	20020712
US2003082392 AA	20030501	US20010001379	20011023
US6824864 BB	20041130	US20010001379	20011023
WO03035394 A1	20030501	WO2002US21924	20020712

Priority:

US20010001379 20011023 WO2002US21924 20020712

Probable Assignee: EXXON MOBIL CORP

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

Assignee(s): EXXONMOBIL OIL 5200 BAYWAY DRI CORPVEB ; BADER MICHAEL J ; BADER MICHAEL JOHN

Inventor(s): (std): BADER MICHAEL JOHN ; BADER MICHAEL J

Agent(s): BORDEN LADNER GERVAIS 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

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

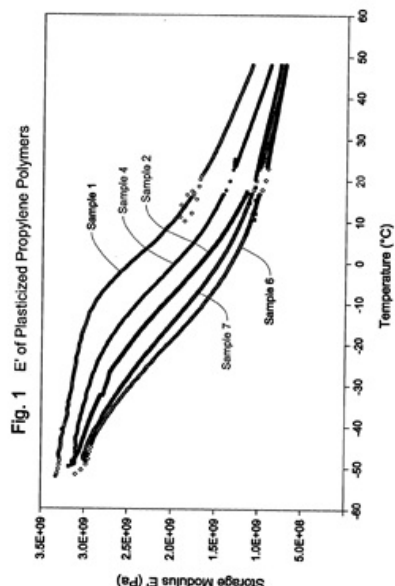
Abstract: The present invention relates to plasticized polyolefin compositions comprising a polyolefin and a non-functionalized plasticizer; wherein the non-functionalized plasticizer may comprise C6 to C200 paraffins (including branched and normal paraffins) having a pour point of less than -5 degrees centigrade. In one embodiment, the non-functionalized plasticizer is an isoparaffin comprising C6 to C25 isoparaffins. In another embodiment the non-functionalized plasticizer is a polyalphaolefin comprising C10 to C100 n-paraffins. The polyolefin may be a polypropylene homopolymer, copolymer, impact copolymer, or blends thereof, and may include a plastomer. Non-limiting examples of desirable article of manufacture made from compositions of the invention include films, tubes, pipes, sheets, fibers, woven and nonwoven fabrics, automotive components, furniture, sporting equipment, food storage containers, transparent and semi-transparent articles, toys, tubing and pipes, and medical devices.

Classifications:

International (IPC 8-9): C08J3/12 C08J3/18 C08J3/20 C08K5/00 C08K5/01 C08L23/02 C08L23/08 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/20 C08L91/00 D04H1/42 D04H3/16 D06M13/02 D06M15/227 (Advanced/Invention); C08K5/00 C08L23/12 C08L23/16 C08L23/18 C08L23/22 C08L57/00 C08L91/00 (Advanced/Non-invention); C08K5/00 C08L23/00 (Core/Invention)
International (IPC 1-7): C08K5/00 C08K5/01 C08L23/00 C08L23/02
CPC: Y10T442/30 Y10T442/60 C08L23/10 C08K5/0016 C08K5/01 C08L23/0815 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06
European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00
US: 524/490 524/491 524/582 524/583 524/62 524/62P 524/848

PatBase - US2004054040_AA

Patent Application Publication Mar. 18, 2004 Sheet 1 of 8 US 2004/0054040 A1

**Family:**

Publication number	Publication date	Application number	Application date
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AU2003258173 CA	20091126	AU20030258173	20030812
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CA2495019 C	20111004	CA20032495019	20030812
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WO04014998 C2	20041202	WO2003US25149	20030812

Priority:

US20020402665P 20020812 US20030634351 20030804 WO2003US24667 20030804
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Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; CHENG CHIA YUNG ; COFFEY JAMES N ; EISELT PETRA ; EXXONMOBIL CHEMICAL PATENTES I ; LIN CHON YIE ; LUNDMARK BRUCE ; LOHSE DAVID J ; LI WEN ; OURIEVA GALINA ; VARMA NAIR MANIKA ; SCHREGENBERGER SANDRA DENISE ; YANG NORMAN ; ZUDOCK JEFFERY ; WITTENBRINK ROBERT J ; YANG HENRY WU HSIANG ; EXXONMOBIL CHEM PATENTES INC

Assignee(s): EXXONMOBIL CHEMICAL PATENTES INC ; ZUDOCK JEFFERY T ; LUNDMARK BRUCE R ; EXXON MOBIL CORP ; EXXONMOBIL CHEMICAL PATENTES INC

Inventor(s): (std): LUNDMARK BRUCE R ; ZUDOCK JEFFERY T ; ZUDOCK JEFFREY ; ZUDOCK JEFFERY ; YANG NORMAN ; YANG HENRY WU HSIANG ; WITTENBRINK ROBERT J ; LUNDMARK BRUCE ; LOHSE DAVID J ; LIN CHON YIE ; LI WEN ; VARMA NAIR MANIKA ; SCHREGENBERGER SANDRA DENISE ; OURIEVA GALINA ; EISELT PETRA ; CHENG CHIA YUNG ; CHAPMAN BRYAN R ; COFFEY JAMES N

Inventor(s): CHON YIE LIN ; CHIA YUNG CHENG ; BRYAN R CHAPMAN ; BRUCE LUNDMARK ; DAVID J LOHSE ; NORMAN YANG ; MANIKA VARMA NAIR ; SANDRA DENISE SCHREGENBERGER ; ROBERT J WITTENBRINK ; PETRA EISELT ; JEFFERY ZUDOCK ; JAMES N COFFEY ; HENRY WU HSIANG YANG ; GALINA OURIEVA ; WEN LI

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; MARESCHAL ANNE; YAMASAKI YUKUZO; AKAMATSU TOSHIAKI; SHIROGANE HIROSHI; SUGIYAMA NAOTO; KEVIN M; CATHERINE L; ROBERT L

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 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

Title: THERMAL BONDABLE FILM FOR INSULATION FACING, AND METHOD FOR MAKING THE SAME

Abstract: A vapor barrier assembly for use in thermal insulation products for buildings. The assembly has one or more vapor barrier layers with a thermally softening bonding layer on top, which bonds the vapor barrier to a fibrous reinforcing layer. A thermal insulation product with good vapor barrier properties can be made from the vapor barrier assembly by attaching it to an insulation batt, using an adhesive.

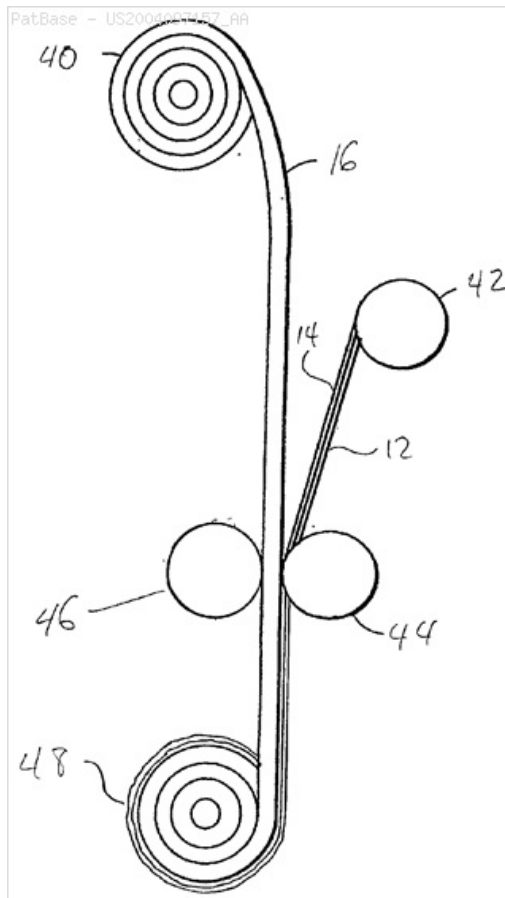
Classifications:

International (IPC 8-9): A47G19/22 A61L27/54 A61L29/16 A61L31/16 B27N1/00 B29D22/00 B29D23/00 B32B15/001 B32B15/004 B32B27/00 B32B27/08 B32B27/12 B32B27/36 B32B5/02 B32B7/10 B32B7/12 B65D41/18 B65D51/00 B65D53/00 B65D53/04 B65D65/40 B65D73/02 D04H1/00 D04H13/00 D04H3/00 D04H5/00 (Advanced/Invention); B32B27/08 B65D41/18 (Advanced/Non-invention); A61L27/00 A61L29/00 A61L31/14 B29D22/00 B29D23/00 B32B15/00 B32B27/00 B32B27/12 B32B27/36 B32B5/02 B32B7/10 D04H1/00 D04H13/00 D04H3/00 D04H5/00 (Core/Invention)

International (IPC 1-7): A47G19/22 B27N1/00 B28B21/72 B29D22/00 B32B15/00 B32B15/01 B32B15/04 B32B15/06 B32B17/06 B32B27/00 B32B27/04 B32B27/10 B32B27/12 B32B27/32 B32B27/36 B32B27/40 B32B33/00 B32B5/26 B32B7/12 B32B9/04 B65D51/00 C08J5/18 D03D19/00 D03D9/00 D04B1/00 D04B21/00 D04C1/00 D04G1/00 D04H1/00 D04H13/00 D04H3/00 D04H5/00 D21J1/00 F16L1/00 F16L9/10

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European: B32B27/12 B32B27/36 B32B5/02 B32B7/10 B32B7/12
US: 428/34.2 428/34.3 428/34.300P 428/34.5 428/34.6 428/34.600S 428/34.7 428/343 428/35.9 428/35.900S 428/36.1 428/36.100S 428/36.2 428/36.200S 428/411.1 428/411.100S 428/423.7 428/423.700S 428/423.9 428/423.900S 428/424.8 428/424.800S 428/425.1 428/425.100S 428/43 428/430 428/430S 428/479.6 428/479.600P 428/48 428/480 428/480S 442/12 442/12S 442/13 442/13S 442/15 442/15S 442/16 442/16P 442/16S 442/19 442/19S 442/394 442/394P 442/395 442/41 442/41S 442/45 442/45S 442/46 442/46S



Family:

Publication number	Publication date	Application number	Application date
AU2003295588 AA	20040615	AU20030295588	20031117
CN1878666 A	20061213	CN200480033479	20041109
CN1878666 B	20110202	CN200480033479	20041109
DE602004035812 D1	20120308	DE200460035812T	20041109
DE60339506 D1	20120301	DE20036039506	20031117
EP1565312 A1	20050824	EP20030786786	20031117
EP1565312 A4	20080305	EP20030786786	20031117
EP1565312 B1	20111221	EP20030786786	20031117
EP1697123 A1	20060906	EP20040811362	20041109
EP1697123 B1	20111221	EP20040811362	20041109
JP2007511434 T2	20070510	JP20060540031T	20041109
JP4814104 B2	20111116	JP20060540031T	20041109
KR101173315 B1	20120810	KR20067011640	20041109
KR20060135658 A	20061229	KR20067011640	20041109
KR20120064133 A	20120618	KR20127013110	20041109
TW200413450 A	20040801	TW20030128836	20031017
TW200523111 A	20050716	TW20040132514	20041027
TWI361754 B	20120411	TW20040132514	20041027
US2004097157 AA	20040520	US20020300352	20021120
US2004132363 AA	20040708	US20030714144	20031114
US2004151929 AA	20040805	US20030718334	20031120
US2004191438 AA	20040930	US20040820549	20040408
US7012032 BB	20060314	US20030714144	20031114
US7157126 BB	20070102	US20040820549	20040408
US7195804 BB	20070327	US20030718334	20031120
WO04045848 A1	20040603	WO2003US36722	20031117
WO05049313 A1	20050602	WO2004US38635	20041109

Priority:

US20020300352 20021120 US20030714144 20031114 EP20030786786 20031117
WO2003US36722 20031117 US20030718334 20031120 US20040820549 20040408
EP20040811362 20041109 WO2004US38635 20041109

Probable Assignee: DUPONT TEIJIN FILMS US LTD

Assignee(s): (std): DUPONT TEIJIN FILMS U S LTD ; DUPONT TEIJIN FILMS U S LTD PA ; FRANZYSHEN STEPHEN K ;

Assignee(s): SEIVERD WESLEY K ; DUPONT TEIJIN FILMS US LTD ; COSENTINO STEVEN R
Inventor(s): (std): CREEGAN CHRISTINE ; DUPONT TEIJIN FILMS U S LIMITED PARTNERSHIP ; DUPONT TEIJIN FILMS US PARTNERSHIP LTD ; DUPONT TEIJIN FILMS US LTD PARTNERSHIP CHESTER
Inventor(s): COSENTINO STEVEN R ; COSENTINO STEVEN R FRANZYSHEN ; CREEGAN CHRISTINE ; SEIVERD WESLEY K ; STEVEN R COSENTINO ; FRANZYSHEN STEPHEN K
Agent(s): FRANZYSHEN STEPHEN K RICHMOND ; COSENTINO STEVEN R QUINTON
Designated states: BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE;
COCKERTON BRUCE ROGER; RATNERPRESTIA
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

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

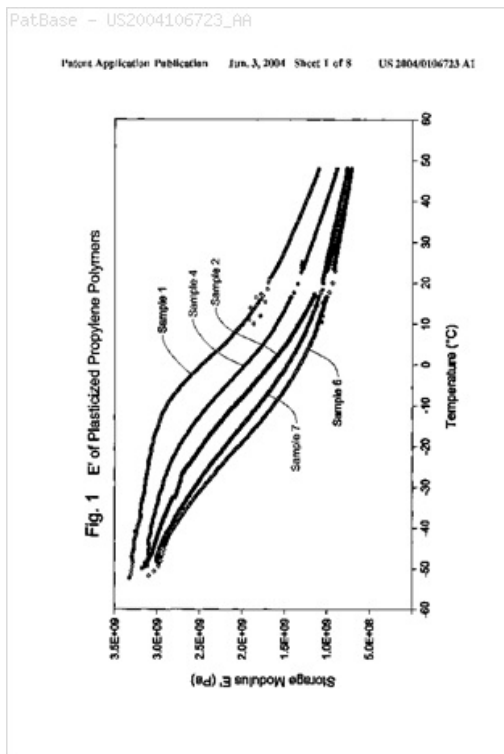
Classifications:

International (IPC 8-9): C08J3/12 C08J3/18 C08J3/20 C08K5/00 C08K5/01 C08L23/02 C08L23/08 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/20 (Advanced/Invention); C08K5/00 C08L23/12 C08L23/18 C08L23/22 C08L57/00 C08L91/00 (Advanced/Non-invention)

International (IPC 1-7): C08L23/00

CPC: Y10T442/30 Y10T442/60 C08L23/10 C08K5/0016 C08K5/01 C08L23/0815 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06
European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00

US: 524/490 524/491 524/570 524/582 524/583 524/848



Family:

Publication number	Publication date	Application number	Application date
US2004106723 AA	20040603	US20030640435	20030812
US7619026 BB	20091117	US20030640435	20030812

Priority:

US20020402665P 20020812 WO2003US24667 20030804 US20030640435 20030812

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL CHEM PATENTS INC

Assignee(s): ZUDOCK JEFFREY THEODORE ; YANG HENRY WU HSIANG ; YANG NORMAN ; CHAPMAN BRYAN R ; CHENG CHIA YUNG ; COFFEY JAMES N ; EISELT PETRA ; EXXON MOBIL CORP ; OURIEVA GALINA ; LOHSE DAVID J ; SCHREGENBERGER SANDRA DENISE ; LUNDMARK BRUCE R ; LIN CHON YIE ; VARMA NAIR MANIKA ; WITTENBRINK ROBERT JAY ; LI WEN ; EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CHAPMAN BRYAN R ; CHENG CHIA YUNG ; COFFEY JAMES N ; EISELT PETRA ; LI WEN ; LIN CHON YIE ; LOHSE DAVID J ; LUNDMARK BRUCE R ; OURIEVA GALINA ; SCHREGENBERGER SANDRA DENISE ; VARMA NAIR MANIKA ; WITTENBRINK ROBERT JAY ; YANG HENRY WU HSIANG ; YANG NORMAN ; ZUDOCK JEFFREY THEODORE

Agent(s): KEVIN M; CATHERINE L; ROBERT L

Title: POLYMERIZED CATALYST COMPOSITION II**Abstract:** Copolymerization of Ni(II) phenol imine complexes containing olefinic substituents on aryl groups with styrene in the presence of a radical initiator results in polymerized late transition metal catalysts which can be used for olefin polymerization or oligomerization. These catalysts have high catalyst activity for olefin polymerization or oligomerization.**Classifications:****International (IPC 8-9):** B01J31/00 B01J31/14 B01J31/16 B01J31/18 B01J31/22 B01J31/24 B01J37/00 C07F15/04 C07F15/06 C08F10/02 C08F4/02 C08F4/06 C08F4/44 C08F4/60 C08F4/80 (Advanced/Invention); C08F110/02 C08F212/08 (Advanced/Non-invention); B01J31/00 B01J31/12 B01J31/16 B01J37/00 C07F15/00 C08F10/00 C08F4/00 (Core/Invention); C08F110/00 C08F212/00 (Core/Non-invention)**International (IPC 1-7):** B01J31/00 C07F15/02 C07F15/06 C08F4/06 C08F4/44**CPC:** B01J31/1815 B01J2231/10 B01J2531/0241 B01J2531/842 B01J2531/845 B01J31/143 B01J31/223 B01J31/2243 B01J31/24 B01J2231/20 B01J2531/847 C07F15/04 C07F15/045 C07F15/06 C07F15/065 C08F10/02 C08F212/08 B01J31/1805 B01J31/2295 B01J31/1658 B01J2231/122 B01J2531/48 C08F4/65904 C08F4/65912 C08F4/65925 C08F4/65927 C08F10/00 C08F110/02**European:** B01J31/14B B01J31/16D2 B01J31/18B B01J31/18B2B B01J31/22B2H4 B01J31/22D6 B01J31/24 C07F15/04 C07F15/04B C07F15/06 C07F15/06B C08F10/00 C08F10/02 C08F110/02 L01J231/10 L01J231/12B L01J231/20 L01J31/22B2H2 L01J531/02F2 L01J531/48 L01J531/84B L01J531/84D L01J531/84F M08F110/02 M08F212/08 M08F4/6592B2 M08F4/6592B4 M08F4/659B M08F4/659K**US:** 502/102 502/102S 502/103 502/103S 502/104 502/104S 502/108 502/108S 502/117 502/117S 502/15 502/150 502/150S 502/152 502/152S 502/154 502/154S 502/155 502/159 502/16 502/160 502/160S 502/162 502/162S 502/165 502/166 502/167 502/168 502/168S 502/200 502/207 526/134 526/135 526/142 526/147 526/16 526/160 526/160S 526/161 526/172 526/172S 526/184 526/219.2 526/219.3 526/219.6 526/227 526/227S 526/229 526/229S 526/241 526/335 526/335S 526/346 526/346S 526/348 526/348.7 526/348.700S 526/901 526/901S 526/943 526/943S 556/140 556/140P**Family:**

Publication number	Publication date	Application number	Application date
US2004147391 AA	20040729	US20030692902	20031024
US2004147771 AA	20040729	US20030693424	20031024
US2004152591 AA	20040805	US20030693786	20031024
US2004157728 AA	20040812	US20030692900	20031024
US7119155 BB	20061010	US20030692902	20031024
US7176158 BB	20070213	US20030693424	20031024
US7319083 BB	20080115	US20030692900	20031024

Priority:

US20020421163P 20021025	US20020421164P 20021025	US20020421282P 20021025
US20020433934P 20021217	US20020434082P 20021217	US20020434913P 20021220
US20020435228P 20021220	US20020435046P 20021220	US20030446607P 20030212
US20030692902 20031024	US20030693424 20031024	US20030693786 20031024
US20030692900 20031024		

Probable Assignee: EXXON MOBIL CORP**Assignee(s):** (std): EXXONMOBIL CHEM PATENTS INC**Assignee(s):** EXXONMOBIL CHEMICAL PATENTS INC ; JIN GUO XIN ; LIN ZERONG ; WITTENBRINK ROBERT J ; ZHANG DAO ; ZHOU GUANGYUAN ; LIU CHANG KUN ; CHIEN WILLIAM M ; CHOW STANLEY WAI YAN ; EXXON MOBIL CORP**Inventor(s):** (std): CHIEN WILLIAM M ; CHOW STANLEY WAI YAN ; JIN GUO XIN ; LIN ZERONG ; LIU CHANG KUN ; WITTENBRINK ROBERT J ; ZHANG DAO ; ZHOU GUANGYUAN**Agent(s):** BELL CATHERINE L; CATHERINE L

Title: FIBERS AND NONWOVENS FROM PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to fibers and nonwovens made from plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

Classifications:

International (IPC 8-9): C08G18/65 C08K5/01 C08L23/08

C08L23/10 C08L23/16 C08L91/06 (Advanced/Invention);

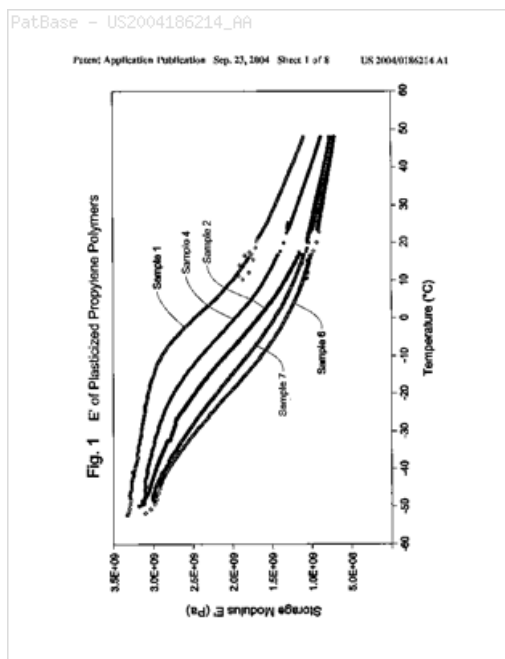
C08L23/12 C08L57/00 C08L91/00 (Advanced/Non-invention)

International (IPC 1-7): C08L23/00

CPC: Y10T442/60 C08L23/0815 A61L2202/24 C08F110/06
C08F210/06 C08K5/0016 C08K5/01 C08L23/10 C08L23/12
C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00
C08L2205/03 C08L2314/06 D04H1/4291

European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16
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M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12
M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06
M08L57/00 M08L91/00

US: 524/284 524/474 524/487 524/490 524/491



Family:

Publication number	Publication date	Application number	Application date
US2004186214 AA	20040923	US20040782306	20040219
US7271209 BB	20070918	US20040782306	20040219

Priority:

US20020402665P 20020812 US20030634351 20030804 US20030640435 20030812
US20040782306 20040219

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL CHEM PATENTS INC

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; LI WEN ; LIN CHON YIE ; KELLY MICHAEL B ; CHAPMAN BRYAN R ; EXXON MOBIL CORP

Inventor(s): (std): CHAPMAN BRYAN R ; KELLY MICHAEL B ; LI WEN ; LIN CHON YIE

Agent(s): CATHERINE L; MICHAEL

Title: METALLIZED FILMS**Abstract:** Metallized films having enhanced barrier properties consist of a first polymer layer, a barrier layer, and a metal layer coated with a heat seal and/or printable layer which has been transferred onto the metal layer.**Classifications:****International (IPC 8-9):** B29C44/24 B29C65/00 B29C65/78
B32B15/08 B32B27/08 B32B37/00 B32B43/00 B32B7/06 B44C1/165
H01L21/00 H01L21/60 H01L21/603 H01L21/607 H01L23/485H01L23/49 H01L23/495 (Advanced/Invention);
B29C65/00 B32B15/08 B32B27/08 B32B37/00 B32B43/00 B32B7/06
B44C1/165 H01L21/02 H01L23/48 (Core/Invention)**International (IPC 1-7):** B29C44/24 B29C65/00 B29C65/78
B32B1/00 B32B15/08 B32B27/00 B32B27/08 B32B31/00 B32B7/06
B44C1/00 B44C1/165 H01L21/60 H01L21/603 H01L21/607
H01L23/00 H01L23/485**CPC:** H01L2924/12041 H01L24/85 H01L24/05 H01L24/45 H01L24/81 H01L2224/05599 H01L2224/45144 H01L2224/45147
H01L2224/48 H01L2224/49175 H01L2224/81801 H01L2224/85205 H01L2224/85399 H01L2924/00014 H01L2924/01007
H01L2924/01014 H01L2924/01015 H01L2924/01018 H01L2924/0104 H01L2924/0105 H01L2924/01073 H01L2924/01084
H01L2924/014 H01L2924/04941 H01L2924/04953 H01L2924/05042 H01L2924/14 H01L2924/19041 H01L2924/19043
H01L2924/3011 H01L2924/3025 H01L2224/45124 H01L24/80 H01L2924/01005 H01L2924/01011 H01L2924/01019
H01L2924/0102 H01L2924/01025 H01L2924/01027 H01L2924/01029 H01L2924/0103 H01L2924/01033 H01L2924/01047
H01L2924/01074 H01L2924/01075 H01L2924/01079 H01L2924/01082 H01L2924/10253 Y10T29/49204 Y10T428/265
B32B15/08 B32B27/08 B32B37/025 B32B38/18 B32B2038/0092 B32B2307/75 B32B2311/24 B32B2553/00 H01L2924/01006
H01L2924/01013 H01L2924/01022 H01L2924/01078 H01L2224/05554 H01L2224/04042 Y10T428/31681 Y10T428/31692
H01L2224/45015 H01L2924/15747 H01L2924/15787 H01L24/02 H01L24/48 H01L24/49 B32B15/04 B32B15/20 B32B37/153
B32B2307/7242 B32B2439/00 B32B2519/00 B32B7/06 B32B43/00**European:** B32B15/08 B32B27/08 B32B31/00C B32B35/00 B32B38/18 B32B43/00 B32B7/06 H01L21/607 H01L24/02
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T01L924/19041 T01L924/19043 T01L924/30110 T01L924/30250**US:** 156/230 156/233 156/233S 156/237 156/238 156/277 156/73.1 228/110.1 257/676 257/676S 257/692 257/692S
257/E21.509 257/E21.509S 257/E21.518 257/E21.518S 257/E21.519 257/E21.519S 257/E23.02 257/E23.020S 257/E23.021
257/E23.021S 29/874 29/874S 428/336 428/336S 428/458 428/458P 428/461 428/461S 438/106 438/106S 438/111
438/111S 438/123 438/123P 53/396

PatBase - US2005019591_88

Coating 2
Precoat 2
Base film BOPP
Precoat 1
Coating 1 (Acrylic or other)

Family:

Publication number	Publication date	Application number	Application date
CA2518507 AA	20050907	CA20042518507	20040406
CA2518510 AA	20050907	CA20042518510	20040406
CN1802744 A	20060712	CN200480015903	20040409
EP1617981 A1	20060125	EP20040759156	20040406
EP1620258 A1	20060201	EP20040759157	20040406
TW200501289 A	20050101	TW20040110017	20040409
US2005019591 AA	20050127	US20040822188	20040406
US2005028923 AA	20050210	US20040818801	20040406
US2007026574 AA	20070201	US20040552429	20040408
US2007026574 AA	20070201	US20040552429	20040409
US2007026574 AA	20070201	US20040552429	20040409
US7279061 BB	20071009	US20040818801	20040406
US7294217 BB	20071113	US20040552429	20040409
WO04091884 A1	20041028	WO2004US10527	20040406
WO04091908 A1	20041028	WO2004US10528	20040406
WO04093185 A2	20041028	WO2004US10861	20040409
WO04093185 A3	20050127	WO2004US10861	20040409

Priority:

US20030461776P 20030409	US20030461737P 20030410	US20030461766P 20030410
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US20040552429 20040409	WO2004US10861 20040409	US20060552429 20060817

Probable Assignee: KULICKE AND SOFFA IND INC**Assignee(s):** (std): BEATSON DAVID THOMAS ; CLAUBERG HORST ; DURY KENNETH KYLE ; EXXONMOBIL OIL CORP ;
FRANCOIS JEAN MARC ; KULICKE AND SOFFA INVEST INC ; KULICKE AND SOFFA IND INC ; KULICKE
AND SOFFA INVESTMENTS**Assignee(s):** KULICKE AND SOFFA IND ; KULICKE ANDSOFFA INVESTMENTS INC ; KULICKE AND SOFFA
INVESTMENTS INC**Inventor(s):** (std): CLAUBERT HORST ; DURY KENNETH KYLE ; KYLE BEATSON DAVID THOMAS CLAU ; FRANCOIS JEAN
MARC ; DURY KENNETH K ; CLAUDERG HORST ; CLAUBERG HORST ; BEATSON DAVID T ; BEATSON
DAVID THOMAS**Inventor(s):** BEATSON DAVID THOMAS CLAUBERG HORST DURY ; BEATSON DAVID THOMAS CLAUBERG HORST
DURY KENNETH K ; BEATSON DAVID THOMAS CLAUBERG HORST DURY KENNETH KYLE ; DURY
KENNETH ; BEATSON DAVID**Agent(s):** GOWLING LAFLEUR HENDERSON LLP ; EXXONMOBIL CHEMICAL CO ; KULICKE AND SOFFA IND INC ;
CHRISTOPHER M**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

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to radiation resistant plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

Classifications:

International (IPC 8-9): C08J3/18 C08K5/01 C08L23/08 C08L23/10 C08L23/12 C08L23/14 C08L23/16 (Advanced/Invention); C08L23/12 C08L57/00 C08L91/00 (Advanced/Non-invention)

International (IPC 1-7): C08K5/01

CPC: Y10T428/2915 C08L23/0815 A61L2202/24 C08K5/0016 C08K5/01 C08L23/10 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06

European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 K61L202/240 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00

US: 428/365 522/157 522/80 524/474 524/490 524/491 524/543 524/543S 524/582 524/583 524/848 604/187

Family:

Publication number	Publication date	Application number	Application date
US2005148720 AA	20050707	US20050054247	20050209
US7622523 BB	20091124	US20050054247	20050209

Priority:

US20020402665P 20020812 US20030634351 20030804 US20030640435 20030812
US20040544108P 20040212 US20050054247 20050209

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL CHEM PATENTS INC

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; LI WEN ; LUNDMARK BRUCE R ; LOHSE DAVID J ; LIN CHON Y ; CHAPMAN BRYAN R ; EXXON MOBIL CORP

Inventor(s): (std): CHAPMAN BRYAN R ; LI WEN ; LIN CHON Y ; LOHSE DAVID J ; LUNDMARK BRUCE R

Inventor(s): CHAPMAN BRYAN ; LUNDMARK BRUCE ; LOHSE DAVID ; LIN CHON

Agent(s): EXXONMOBIL CHEMICAL COMPANY, LAW TECHNOLOGY; EXXONMOBIL CHEMICAL CO LAW TECHNOLOGY; KEVIN M; CATHERINE L

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to radiation resistant plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

Classifications:

International (ipc 8-9): A61L2/00 A61L2/08 B65D65/40 C08J7/00 C08K5/00 C08K5/01 C08L23/00 C08L23/02 C08L23/10 C08L23/12 (Advanced/Invention);

A61L2/00 A61L2/08 B65D65/40 C08J7/00 C08K5/00 C08L23/00 (Core/Invention)

International (ipc 1-7): A61L2/00 C08K5/01 C08L23/02

CPC: A61L2/08 C08K5/01 C08L23/10 C08L2205/02

European: A61L2/08 C08K5/01 C08L23/10 M08L205/02 M08L23/10

Family:

Publication number	Publication date	Application number	Application date
■ CN1918226 A	20070221	CN200580004691	20050209
■ CN1918226 B	20110406	CN200580004691	20050209
■ EP1718700 A1	20061108	EP20050722885	20050209
■ EP1718700 B1	20120829	EP20050722885	20050209
■ EP1718700 B8	20121003	EP20050722885	20050209
■ JP2007522327 T2	20070809	JP20060553212T	20050209
■ JP4746566 B2	20110810	JP20060553212T	20050209
■ WO05080495 A1	20050901	WO2005US04159	20050209

Priority:

US20040544108P 20040212 WO2005US04159 20050209

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; LI WEN ; LIN CHON Y ; LUNDMARK BRUCE R ; LOHSE DAVID J

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXONMOBIL CHEMICAL PATENTS INC A OF STATE OF DELAWARE CORP

Inventor(s): (std): WEN LI ; LUNDMARK BRUCE R ; LOHSE DAVID J ; LIN CHON Y ; LI WEN CHAPMAN BRYAN R LIN CHO ; LI WEN ; CHAPMAN BRYAN R

Inventor(s): LI WEN CHAPMAN BRYAN R LIN CHON Y LUNDMARK BRUCE R ; LI WEN CHAPMAN BRYAN R

Agent(s): DENNESS JAMES EDWARD; MARESCHAL ANNE; YAMASAKI YUKUZO; SHIROGANE HIROSHI; AKAMATSU TOSHIKI; SUGIYAMA NAOTO

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

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

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

Classifications:

International (IPC 8-9): A23B4/00 A23B4/02 A23B4/033 A23B4/10 A23B4/14 A23B4/16 A23B4/18 A23B4/20 A23B4/24 A23L1/27 A23L1/272 A23L1/31 A23L1/311 A23L13/00 A23L13/10 A23L3/34 A23L3/3427 A23L3/3445 A23L3/358 A23L5/40 A23L5/41 B31B45/00 B32B1/02 B32B23/00 B32B23/08 B32B23/16 B32B27/00 B32B27/08 B32B27/12 B32B27/14 B32B27/16 B32B27/18 B32B27/28 B32B27/30 B32B27/32 B32B5/16 B32B7/02 B32B9/04 B65B25/02 B65B25/06 B65B31/00 B65D25/06 B65D25/14 B65D65/02 B65D65/40 B65D65/42 B65D75/36 B65D81/20 B65D81/24 B65D81/26 B65D81/28 B65D85/00 B65D85/50 B82Y30/00 C01B21/20 C08J5/00 C08J5/18 C08J7/12 F16B4/00 (Advanced/Invention); A23L3/34 A23L3/3526 A23L3/3535 B23B23/00 B32B1/02 B32B1/08 B32B23/00 B32B27/00 B32B27/28 B32B27/32 B32B7/02 B32B9/04 B65D65/40 (Advanced/Non-invention); A23B4/00 A23B4/02 A23B4/14 A23L1/27 A23L1/31 A23L3/34 A23L3/3454 B31B45/00 B32B23/00 B32B27/00 B32B27/08 B32B27/16 B32B27/18 B32B27/28 B32B27/30 B32B27/32 B32B9/04 B65B25/02 B65B31/00 B65D25/04 B65D25/14 B65D65/02 B65D65/40 B65D75/28 B65D81/20 B65D81/24 B65D81/26 B65D81/28 B65D85/00 B65D85/50 C01B21/00 C08J5/00 C08J5/18 C08J7/00 F16B4/00 (Core/Invention); A23L3/34 A23L3/3463 B32B7/02 (Core/Non-invention); B32B (Subclass/Invention)

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

CPC: B32B2307/31 B32B2307/7242 B32B5/18 B32B15/08 B32B27/10 B32B2307/308 B32B2307/738 B32B2307/30 B32B2307/75 B65D81/2076 A23L3/3427 B32B2250/02 B32B2307/726 C08J5/18 Y10T428/13 Y10T428/1303 Y10T428/1352 Y10T428/1359 Y10T428/139 Y10T428/1328 Y10T428/25 B32B27/18 A23B4/20 A23B4/24 B32B7/02 B32B27/00 B32B27/306 B32B27/32 B32B27/34 B32B2250/24 B32B2270/00 B32B2307/412 B32B2307/518 B32B2307/7244 B32B2439/46 B32B2439/62 B32B2439/70 A23B4/18 B32B27/304 B32B27/36 B32B2250/05 B32B2264/104 B32B2274/00 B32B2307/406 B32B2307/736 B32B2250/40 B32B2264/105 B32B27/30 B32B27/308 A23B4/14 B32B5/022 B32B27/12 B32B2262/062 B32B2307/74 B65D81/24 Y10T428/273 Y10T428/23 Y10T428/24331 Y10T428/31993 Y10T442/60 A23L13/03 A23L5/41 B32B7/06 B32B2307/202 B32B2307/208 B32B2405/00 A23B4/10 A23B4/16 A23L3/3445 B32B27/08 B32B27/16 B65D65/40

European: A23B4/10 A23B4/14 A23B4/16 A23B4/18 A23B4/20 A23B4/24 A23L1/272 A23L1/31H A23L3/3427 A23L3/3445

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B32B27/36 B32B5/02A B32B7/02 B65D81/24 C08J5/18 L32B250/02 L32B250/05 L32B250/24 L32B250/40 L32B262/06A

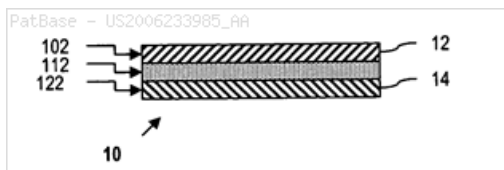
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L32B307/736 L32B307/740 L32B439/46 L32B439/62 L32B439/70 L65D81/20F1

US: 206/524.3 423/385 426/129 426/129P 426/132 426/132P 426/264 426/264S 426/265 426/266 426/266P 426/410

426/415 428/138 428/323 428/323S 428/34.1 428/34.100P 428/34.100S 428/34.2 428/34.9 428/34.900P 428/34.900S

428/341 428/35.7 428/35.700P 428/35.9 428/36.9 428/537.5 428/68 428/704 442/327 523/100



Family:

Publication number	Publication date	Application number	Application date
AR060929 AA	20080723	AR2007P102083	20070515
AT525206 E	20111015	AT20070107804T	20070509
AT547241 E	20120315	AT20050732916T	20050404
AU2005231831 AA	20051020	AU20050231831	20050404
AU2005231831 BB	20090827	AU20050231831	20050404
AU2007202179 AA	20071206	AU20070202179	20070515
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AU2007229393 BB	20131212	AU20070229393	20071019
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DK1737651 T3	20120326	DK20050732916T	20050404
DK1857269 T3	20111017	DK20070107804T	20070509
EP1737651 A1	20070103	EP20050732916	20050404
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EP1737651 B1	20120229	EP20050732916	20050404
EP1857269 A1	20071121	EP20070107804	20070509
EP1857269 B1	20110921	EP20070107804	20070509
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KR20070019998 A	20070216	KR20067019893	20060926
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NO20064991 A	20061031	NO20060004991	20061031
NO333255 B1	20130422	NO20060004991	20061031
NZ550224 A	20100827	NZ20050550224	20050404
NZ555161 A	20081224	NZ20070555161	20070515
NZ562691 A	20090531	NZ20070562691	20071019
PL1857269 T3	20120229	PL20070107804T	20070509
PT1857269 T	20111012	PT20070107804T	20070509
RU2006138620 A	20080510	RU20060138620	20050404
RU2007118300 A	20081127	RU20070118300	20070516
RU2409959 C2	20110127	RU20060138620	20050404
RU2447667 C2	20120420	RU20070118300	20070516
SG137766 A1	20071228	SG20070033129	20070508
UA92318 C2	20101025	UA20060101524	20050404
UA96258 C2	20111025	UA20070005353	20070515
US2006233985 AA	20061019	US20060413504	20060428
US2006246242 AA	20061102	US20060436159	20060517
US2006286323 AA	20061221	US20060451968	20060612
US2007014947 AA	20070118	US20060523953	20060920
US2007014953 AA	20070118	US20060506322	20060818
US2007104901 AA	20070510	US20060584164	20061020
US2007275134 AA	20071129	US20050576438	20050404
US2010266795 AA	20101021	US20100796783	20100609
US2012100267 AA	20120426	US20110338829	20111228
US2012107466 AA	20120503	US20110338870	20111228
US2012219671 AA	20120830	US20110209822	20110815
US2013266755 AA	20131010	US20130865715	20130418
US7867531 BB	20110111	US20060413504	20060428
US8029893 BB	20111004	US20060451968	20060612
US8053047 BB	20111108	US20050576438	20050404
US8110259 BB	20120207	US20060436159	20060517
US8470417 BB	20130625	US20060523953	20060920
US8530012 BB	20130910	US20110338829	20111228
US8545950 BB	20131001	US20060584164	20061020
US8623479 BB	20140107	US20110338870	20111228
US8668969 BB	20140311	US20100796783	20100609
US8709595 BB	20140429	US20110209822	20110815
US8741402 BB	20140603	US20060506322	20060818
US8802204 BB	20140812	US20130865715	20130418
WO05097486 A1	20051020	WO2005US11387	20050404

Priority:

US20040559350	20040402	US20040559350P	20040402	EP20050732916	20050404
US20050576438	20050404	WO2005US11387	20050404	WO2005US11387	20050420
US20060413504	20060428	US20060436159	20060517	US20060451968	20060612
US20060506322	20060818	US20060523953	20060920	US20060584164	20061020
US20070576438	20070409	EP20070107804	20070509	EP20070107805	20070509
CA20072589050	20070516	US20100796783	20100609	US20110209822	20110815
US20110338829	20111228	US20110338870	20111228	US20130865715	20130418

Probable Assignee: BEMIS CO INC

Assignee(s): (std): CURWOOD INC SOC ORGANIZADA BAJO LAS LEYES DEL ESTADO DE DELAWARE ; SIEGEL DAN G ; NELSON KEVIN P ; POCKAT GREGORY R ; SCHELL THOMAS A ; LATREILLE DOUGLAS M ; MENGEL MATTHEW L ; MICHAUD RYAN A ; KERVUD INK ; NELSON KEVIN PHILIP ; MENGEL MATTHEW LEROY ; LATREILLE DOUGLAS MARK ; SCHELL THOMAS ANDREW ; MICHAUD RYAN ARTHUR ; POCKAT GREGORY ROBERT ; BERBERT OTACILIO T ; BERBERT OTACILIO TEIXEIRA ; CURWOOD INC

Assignee(s): CURWOOD INC OSHKOSH ; BEMIS CO INC

Inventor(s): (std): BERBERT OTACILIO T ; BERBERT OTACILIO TEIXEIRA ; DAN G SIEGEL ; LATREILLE DOUGLAS ; LATREILLE DOUGLAS M ; LATREILLE DOUGLAS MARK ; MENGEL MATTHEW ; MENGEL MATTHEW L ; MENGEL MATTHEW LEROY ; MICHAUD RYAN A ; NEL SON KEVIN FILIP ; NELSON KEVIN P ; NELSON KEVIN PHILLIP ; KEVIN P NELSON ; POCKAT GREGORY R ; POCKAT GREGORY ROBERT ; SCHELL THOMAS A ; SCHELL THOMAS ANDREW ; SIDZHEL DEHN G ; SIEGEL DAN ; SIEGEL DAN G ; SIEGEL DAN G NELSON KEVIN P ; SIGEL DEHN DZH ; PHILIP SIEGEL DAN G NELSON KEV ; NELSON KEVIN PHILIP ; MICHAUD RYAN ARTHUR ; SIEGAL DAN G

Inventor(s): RYAN ARTHUR MICHAUD ; BERBERT OTACILIO ; BERBERT OTACILIO TEIXEIRA OSHKOSH ; MICHAUD RYAN ; NELSON KEVIN ; NELSON KEVIN PHILIP APPLETON ; THOMAS ANDREW SCHELL ; SIEGEL DAN G BELLEVILLE ; SIEGEL DAN BELLEVILLE ; POCKAT GREGORY ROBERT RIPON ; SCHELL THOMAS ; KEVIN PHILIP NELSON ; OTACILIO TEIXEIRA BERBERT ; POCKAT GREGORY ; NEL'SON KEVIN FILIP ; MATTHEW LEROY MENGEL ; DOUGLAS MARK LATREILLE ; GREGORY ROBERT POCKAT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY; VILLASECA; HOEGER STELLRECHT AND PARTNER PATENTANWAELTE MBB;

ACKROYD ROBERT; EDDOWES SIMON; SMAGGASGALE GILLIAN HELEN; DR SHLOMO COHEN AND CO;
BEMIS CO INC; BEMIS CO INC PATENT AND TRADEMARK DEPARTMENT; TOM J; CHRISTINE E; CEDRIC
M

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

Title: POLYPROPYLENE BASED FIBERS AND NONWOVENS

Abstract: The present invention relates to fibers and nonwovens made from plasticized polyolefin compositions comprising a polyolefin, a non-functionalized hydrocarbon plasticizer and a slip agent.

Classifications:

International (IPC 8-9): B32B27/32 D02G3/00 D04H1/42 (Advanced/Invention)

CPC: Y10T428/2913 Y10T428/2967 C08K5/0016 C08K5/20 C08L23/10 D01F1/10 Y10T442/60 Y10T442/637 D04H1/4382 D01F6/46

European: C08K5/00P1 D01F1/10 D01F6/46 D04H1/42 M08K5/20 M08L23/10

US: 428/364 428/364P 428/394 442/327 442/361

Family:

Publication number	Publication date	Application number	Application date
US2006008643 AA	20060112	US20050119193	20050429
US7998579 BB	20110816	US20050119193	20050429

Priority:

US20020402665P 20020812	US20030634351 20030804	US20030640435 20030812
US20040782306 20040219	US20040637429P 20041217	US20050655612P 20050222
US20050655310P 20050222	US20050119193 20050429	

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; CHENG CHIA Y ; EXXONMOBIL CHEM PATENTS INC ; FERRY WILLIAM M ; KELLY MICHAEL B ; LI WEN ; LIN CHON Y ; LUNDMARK BRUCE R

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): KELLY MICHAEL B ; LI WEN ; CHENG CHIA Y ; FERRY WILLIAM M ; LIN CHON Y ; CHAPMAN BRYAN R ; LUNDMARK BRUCE R ; CHENG CHIA YUNG ; FERRY WILLIAM MICHAEL ; KELLY MICHAEL BRIAN ; LUNDMARK BRUCE ROBERT ; CHAPMAN BRYAN ROBERT ; LIN CHON YIE

Inventor(s): CHAPMAN BRYAN ; FERRY WILLIAM ; CHENG CHIA ; LIN CHON ; KELLY MICHAEL ; LUNDMARK BRUCE

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; CATHERINE L; KEVIN M

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to a composition comprising 1) from 1 to 98 weight percent of a first propylene polymer having a melting point of 100 degrees centigrade or more, 2) from 5 to 98 weight percent of a second propylene polymer having a heat of fusion of 70 J/g or less and a tacticity index of 75 percent or more, 3) from 0.5 to 75 weight percent of a non-functionalized plasticizer ("NFP") having a viscosity index of 120 or more, based upon the weight of the first polymer, second polymer, and the NFP, and articles therefrom

Classifications:

International (IPC 8-9): C08K5/00 C08L23/00 C08L23/04 (Advanced/Invention);
C08K5/00 C08L23/00 (Core/Invention)

CPC: D01F1/10 D01F6/46 C08L23/10 C08L23/14 C08L23/142 C08L2205/02 C08L2314/06

European: C08L23/10 C08L23/14A M08L205/02 M08L23/10 M08L23/14 M08L314/06

US: 524/515 525/191 525/240 525/240P

Family:

Publication number	Publication date	Application number	Application date
US2006135699 AA	20060622	US20050119072	20050429
US2008227919 A9	20080918	US20050119072	20050429
US7629416 BB	20091208	US20050119072	20050429

Priority:

US20020402665P 20020812 US20030640435 20030812 US20040637429P 20041217
US20050655612P 20050222 US20050655310P 20050222 US20050119072 20050429

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; EXXONMOBIL CHEM PATENTS INC ; IYER SRIVATSAN S ; LI WEN ; TSE MUN F

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): LI WEN ; IYER SRIVATSAN S ; TSE MUN F ; CHAPMAN BRYAN R ; IYER SRIVATSAN SRINIVAS ; TSE MUN FU ; CHAPMAN BRYAN ROBERT

Inventor(s): IYER SRIVATSAN ; CHAPMAN BRYAN ; TSE MUN

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO

Title: HOMOGENEOUS POLYMER BLEND AND ARTICLES THEREFROM

Abstract: This invention relates to homogeneous blends of: 1) from 60 to 99 weight percent of one or more semi-crystalline polymers (based upon the weight of the semi-crystalline and semi-amorphous polymers), each semi-crystalline polymer comprising propylene and from 0 to 5 weight percent alpha-olefin comonomer (based upon the weight of the polymer), said semicrystalline polymers each having a melting point between 100 and 170 degrees centigrade and a melt flow rate of 200 dg/min or less; and 2) from 1 to 40 weight percent of one or more semi-amorphous polymers (based upon the weight of the semi-crystalline and semi-amorphous polymers), each semi-amorphous polymer comprising propylene and from 5 to 12 weight percent of one or more C2 and or C4 to C10 alpha-olefin comonomers, said semi-amorphous polymers each having: a) 10 to 50 percent crystallinity or less; b) a melt flow rate of 200 dg/min or less; c) a DSC melting point (second melt T_m) of 130 degrees centigrade or less; d) an intermolecular composition distribution as determined by thermal fractionation in hexane such that 85 percent by weight or more of the polymer is isolated as one or two adjacent, soluble fractions with the balance of the polymer in immediately preceding or succeeding fractions; and wherein each of these fractions has a wt percent comonomer content with a difference of no greater than 20 wt percent relative to the average wt percent comonomer content of the copolymer; e) an Mw/Mn of 1.5 to 4, f) a triad tacticity of three propylene units, as measured by ¹³CNMR, of 75 percent or greater, for use in films, fibers, non-wovens, molded articles and the like.

Classifications:

International (IPC 8-9): C08J5/18 C08L23/10 D01F6/46

D04H1/54 (Advanced/Invention);

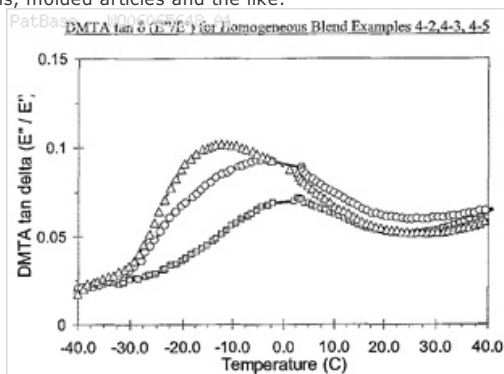
C08J5/18 C08L23/00 D01F6/46 D04H1/54 (Core/Invention)

CPC: C08L23/10 C08L23/142 C08L2205/02 C08L2205/025

C08L2314/06

European: C08L23/10 M08L205/02 M08L205/025 M08L23/14A

M08L314/06



Family:

Publication number	Publication date	Application number	Application date
AT467658 E	20100515	AT20050853516T	20051209
CA2588770 AA	20070529	CA20052588770	20051209
CA2588770 C	20100323	CA20052588770	20051209
DE602005021248 D1	20100624	DE200560021248T	20051209
EP1831304 A1	20070912	EP20050853516	20051209
EP1831304 B1	20100512	EP20050853516	20051209
JP2008524387 T2	20080710	JP20070546770T	20051209
JP4782800 B2	20110928	JP20070546770T	20051209
WO06065648 A1	20060622	WO2005US44615	20051209

Priority:

US20040637429P 20041217
WO2005US44615 20051209

US20050655310P 20050222

US20050655612P 20050222

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHENG CHIA YOUNG ; DATTA SUDHIN ; EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; LI WEN ; LIN CHON Y ; MEHTA ASPY K ; IYER SRIVATSAN S

Assignee(s): IYER SRIVATSAN SRINIVAS ; EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CHENG CHIA YOUNG ; IYER SRIVATSAN S ; IYER SRIVATSAN SRINIVAS ; LIN CHON Y ; MEHTA ASPY K ; MEHTA ASPY ; LIN CHON ; LI WEN ; IYER SRIVATSAN ; DATTA SUDHIN ; CHENG CHIA

Agent(s): BORDEN LADNER GERVAIS LLP; FRANCK PETER; YAMASAKI YUKUZO; AKAMATSU TOSHIKI; SUGIYAMA NAOTO; SHIROGANE HIROSHI

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

Title: MODIFIED POLYETHYLENE COMPOSITIONS

Abstract: The present invention relates to a composition comprising more than 25 weight percent (based on the weight of the composition) of one or more ethylene polymers having an M_w of 20,000 g/mole or more and at least 0.1 weight percent of a liquid hydrocarbon modifier where the modifier has: 1) a viscosity index of 120 or more, and 2) an kinematic viscosity of 3 to 3000 cSt at 100 degrees centigrade, and 3) a pour point of -10 degrees centigrade or less, and 4) a flash point of 200 degrees centigrade or more; and wherein the modifier contains less than 5 weight percent of functional groups selected from hydroxide, aryls, substituted aryls, halogens, alkoxys, carboxylates, esters, acrylates, oxygen, nitrogen, and carboxyl, based upon the weight of the modifier.

Classifications:

International (IPC 8-9): A61K9/16 C08F10/04 C08F110/02
C08F110/06 C08F2/00 C08K5/01 C08L23/04 (Advanced/Invention);
C08K5/00 C08L23/00 (Core/Invention)

International (IPC 1-7): C08K5/01

CPC: C08K5/01 C08L23/06 C08L23/0815 C08L23/22 C08L23/26
C08L51/06 C08L23/04 C08L23/10 C08L2205/02

European: C08K5/01 C08L23/04 C08L23/06 C08L23/08A1

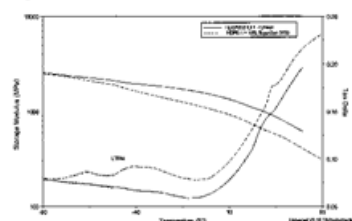
M08L205/02 M08L23/10 M08L23/22 M08L23/26 M08L51/06

US: 524/487 524/487S 524/543 526/348 526/348.6 526/351 526/352
526/89

PatBase - US2006173123_AA

Patent Application Publication Aug. 3, 2006 Sheet 1 of 2 US 2006/0173123 A1

Figure 1

**Family:**

Publication number	Publication date	Application number	Application date
AT453683 E	20100115	AT20060718609T	20060117
AU2006211534 AA	20060810	AU20060211534	20060117
AU2006211534 BB	20090730	AU20060211534	20060117
BRPI0606981 A2	20090728	BR2006PI06981	20060117
CA2595946 AA	20070731	CA20062595946	20060117
CA2595946 C	20110315	CA20062595946	20060117
CN101137708 A	20080305	CN200680007981	20060117
CN101137708 B	20120328	CN200680007981	20060117
DE602006011430 D1	20100211	DE200660011430T	20060117
EP1846491 A1	20071024	EP20060718609	20060117
EP1846491 B1	20091230	EP20060718609	20060117
ES2338585 T3	20100510	ES20060718609T	20060117
IN05883DN2007 A	20070817	IN2007DN05883	20070727
IN250667 B	20120120	IN2007DN05883	20070727
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JP4852554 B2	20120111	JP20070554107T	20060117
US2006173123 AA	20060803	US20060333421	20060117
US7795366 BB	20100914	US20060333421	20060117
WO06083540 A1	20060810	WO2006US01556	20060117

Priority:

US20020402665P 20020812	US20030634351 20030804	US20030640435 20030812
US20040782306 20040219	US20040782228 20040219	US20050649266 20050202
US20050649266P 20050202	US20060333421 20060117	WO2006US01556 20060117

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): LI WEN ; LOHSE DAVID J ; YANG HENRY W ; LUNDMARK BRUCE R ; POLOSO ANTHONY ; SCHREGENBERGER SANDRA D ; VARMA NAIR MANIKA ; POLOSO TONY ; SCHREGENBERGER SANDRA DENISE ; CHAPMAN BRYAN R ; EXXONMOBIL CHEM PATENTS INC

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): ANTHONY POLOSO ; POLOSO TONY ; SCHREGENBERGER SANDRA DENISE ; WEN LI ; YANG HENRY W ; YANG HENRY ; VARMA NAIR MANIKA ; POLOSO ANTHONY ; MANIKA VARMA NAIR ; LUNDMARK BRUCE R ; LUNDMARK BRUCE ; LOHSE DAVID J ; LOHSE DAVID ; LI WEN ; SCHREGENBERGER SANDRA D ; SCHREGENBERGER SANDRA ; CHAPMAN BRYAN R ; CHAPMAN BRYAN

Inventor(s): BRYAN R CHAPMAN ; BRUCE R LUNDMARK ; SANDRA DENISE SCHREGENBERGER ; SANDRA DENISE SCHREGEN BERGER ; HENRY W YANG ; DAVID J LOHSE ; TONY POLOSO

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; GERSTBERGER GISELA; YAMASAKI YUKUZO; AKAMATSU TOSHIKI; SUGIYAMA NAOTO; SHIROGANE HIROSHI; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; CATHERINE 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 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

Title: HOMOGENEOUS POLYMER BLEND AND ARTICLES THEREFROM

Abstract: This invention relates to homogeneous blends of: 1) from 60 to 99 weight percent of one or more semi-crystalline polymers (based upon the weight of the semi-crystalline and semi-amorphous polymers), each semi-crystalline polymer comprising propylene and from 0 to 5 weight percent alpha-olefin comonomer (based upon the weight of the polymer), said semi-crystalline polymers each having a melting point between 100 and 170 degrees centigrade and a melt flow rate of 200 dg/min or less; and 2) from 1 to 40 weight percent of one or more semi-amorphous polymers (based upon the weight of the semi-crystalline and semi-amorphous polymers), each semi-amorphous polymer comprising propylene and from 5 to 12 weight percent of one or more C2 and/or C4 to C10 alpha-olefin comonomers, said semi-amorphous polymers each having: a) 10 to 50 percent crystallinity or less; b) a melt flow rate of 200 dg/min or less; c) a DSC melting point (second melt T_m) of 130 degrees centigrade or less; d) an intermolecular composition distribution as determined by thermal fractionation in hexane such that 85 percent by weight or more of the polymer is isolated as one or two adjacent, soluble fractions with the balance of the polymer in immediately preceding or succeeding fractions; and wherein each of these fractions has a wt percent comonomer content with a difference of no greater than 20 wt percent relative to the average wt percent comonomer content of the copolymer; e) an Mw/Mn of 1.5 to 4, f) a triad tacticity of three propylene units, as measured by ¹³C NMR, of 75 percent or greater, for use in films, fibers, non-wovens, molded articles and the like.

Classifications:

International (IPC 8-9): C08F8/00 C08L23/10

C08L23/14 (Advanced/Invention)

CPC: C08L23/10 C08L23/142 C08L2205/02 C08L2205/025

C08L2314/06

European: C08L23/10 M08L205/02 M08L205/025 M08L23/14A

M08L314/06

US: 524/515 525/191 525/191P 525/240

PatBase - US2006183860_AA

Patent Application Publication: Aug. 17, 2006 Sheet 1 of 3 US 2006/0183860 A1

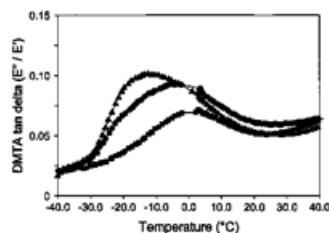


Fig. 1

Fig. 2



Field of view: 20µm x 20µm

Family:

Publication number	Publication date	Application number	Application date
US2006183860 AA	20060817	US20050299022	20051209
US7619038 BB	20091117	US20050299022	20051209

Priority:

US20040637429P 20041217

US20050655612P 20050222

US20050655310P 20050222

US20050299022 20051209

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL CHEM PATENTS INC ; LI WEN ; MEHTA ASPY K ; LIN CHON Y ; IYER SRIVATSAN S ; CHENG CHIA ; DATTA SUDHIN

Assignee(s): EXXON MOBIL CORP ; EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CHENG CHIA ; DATTA SUDHIN ; IYER SRIVATSAN S ; LI WEN ; LIN CHON Y ; MEHTA ASPY K

Inventor(s): MEHTA ASPY ; LIN CHON ; IYER SRIVATSAN

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; CATHERINE L; DARRYL M

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

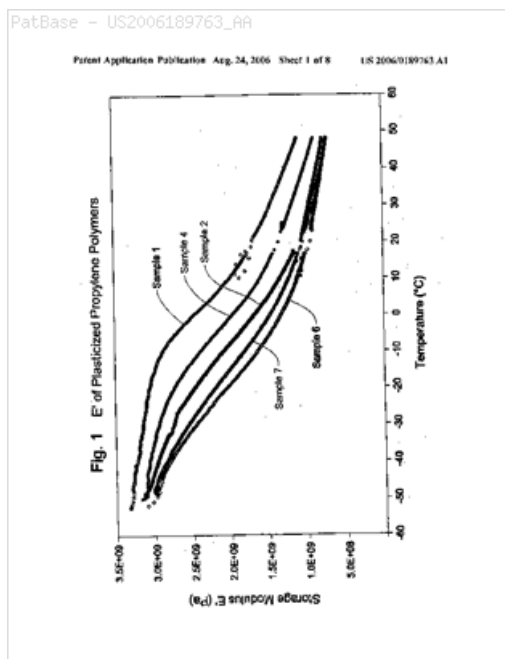
Classifications:

International (IPC 8-9): C08J3/12 C08J3/18 C08J3/20 C08K5/00 C08K5/01 C08L23/02 C08L23/04 C08L23/08 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/20 (Advanced/Invention); C08K5/00 C08L23/12 C08L23/18 C08L23/22 C08L57/00 C08L91/00 (Advanced/Non-invention)

CPC: Y10T442/30 Y10T442/60 C08L23/10 C08K5/0016 C08K5/01 C08L23/0815 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06

European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00

US: 524/474 524/474S 524/487 524/487S 524/490 524/491 524/543 524/543S 524/570 524/582 524/583 524/584 524/848 525/240 525/240P

**Family:**

Publication number	Publication date	Application number	Application date
US2006189763 AA	20060824	US20060406926	20060419
US7652093 BB	20100126	US20060406926	20060419

Priority:

US20020402665P 20020812 WO2003US24667 20030804 US20030640435 20030812
 US20060406926 20060419

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): OURIEVA GALINA ; LOHSE DAVID J ; LUNDMARK BRUCE R ; LIN CHON YIE ; VARMA NAIR MANIKA ; SCHREGENBERGER SANDRA D ; LI WEN ; WITTENBRINK ROBERT J ; CHAPMAN BRYAN R ; CHENG CHIA Y ; COFFEY JAMES N ; EISELT PETRA ; EXXONMOBIL CHEM PATENTS INC ; ZUDOCK JEFFREY T ; YANG HENRY W ; YANG NORMAN

Assignee(s): EXXON MOBIL CORP ; EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CHAPMAN BRYAN R ; CHENG CHIA Y ; CHENG CHIA YUNG ; COFFEY JAMES N ; EISELT PETRA ; LI WEN ; LIN CHON YIE ; LOHSE DAVID J ; LUNDMARK BRUCE R ; OURIEVA GALINA ; SCHREGENBERGER SANDRA D ; SCHREGENBERGER SANDRA DENISE ; VARMA NAIR MANIKA ; WITTENBRINK ROBERT J ; WITTENBRINK ROBERT JAY ; YANG HENRY W ; YANG HENRY WU HSIANG ; YANG NORMAN ; ZUDOCK JEFFREY T ; ZUDOCK JEFFREY THEODORE

Inventor(s): ZUDOCK JEFFREY ; YANG HENRY ; WITTENBRINK ROBERT ; SCHREGENBERGER SANDRA ; LUNDMARK BRUCE ; LOHSE DAVID ; COFFEY JAMES ; CHENG CHIA ; CHAPMAN BRYAN

Agent(s): EXXONMOBIL CHEMICAL COMPANY, LAW TECHNOLOGY; EXXONMOBIL CHEMICAL CO LAW TECHNOLOGY; KEVIN M; CATHERINE L; ROBERT L

Title: POLYPROPYLENE BASED FIBERS AND NONWOVENS

Abstract: The present invention relates to fibers and nonwovens made from plasticized polyolefin compositions comprising a polyolefin, a non-functionalized hydrocarbon plasticizer and a slip agent.

Classifications:

International (IPC 8-9): C08K5/00 C08L C08L23/10 C08L23/18 D01F6/00 D01F6/04 D01F6/06 D03D15/00 D04H1/00

D04H1/42 D04H1/4291 D04H3/007 D04H3/16 (Advanced/Invention);

C08K (Subclass/Invention)

CPC: Y10T428/2913 Y10T428/2967 C08K5/0016 C08K5/20 C08L23/10 D01F1/10 Y10T442/60 Y10T442/637 D04H1/4382 D01F6/46

European: C08K5/00P1 D01F1/10 D01F6/46 D04H1/42 M08K5/20 M08L23/10

Family:

Publication number	Publication date	Application number	Application date
CN101360779 A	20090204	CN200680023813	20060419
CN101360779 B	20131113	CN200680023813	20060419
EP1879953 A2	20080123	EP20060769847	20060419
EP1879953 B1	20180919	EP20060769847	20060419
IL186977 A0	20080209	IL20060186977	20060419
IL186977 A1	20151231	IL20060186977	20060419
JP2008539340 T2	20081113	JP20080508920T	20060419
JP5186362 B2	20130417	JP20080508920T	20060419
MX2007013502 A1	20080121	MX20070013502	20060419
WO06118794 A2	20061109	WO2006US14692	20060419
WO06118794 A3	20070823	WO2006US14692	20060419

Priority:

US20050119193 20050429 WO2006US14692 20060419

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL PATENTS INC ; KELLY MICHAEL B ; LUNDMARK BRUCE R ; LIN CHON YIE ; FERRY WILLIAM M ; LI WEN ; CHAPMAN BRYAN R ; CHENG CHIA Y ; EXXON MOBIL CHEM PATENTS INC

Assignee(s): EXXON MOBIL CHEMICAL PATENTS INC

Inventor(s): (std): WEN LI ; KELLY MICHAEL B ; LI WEN ; FERRY WILLIAM M ; CHENG CHIA Y ; CHAPMAN BRYAN R ; LUNDMARK BRUCE R ; LIN CHON YIE ; LIN CHON Y

Inventor(s): BRUCE R LUNDMARK ; CHIA Y CHENG ; WILLIAM M FERRY ; BRYAN R CHAPMAN ; CHON YIE LIN ; MICHAEL B KELLY

Agent(s): VELDHIJZEN ALBERT DIRK WILLEM ET AL; EXXONMOBIL CHEMICAL EUROPE INC; WOLFF BREGMAN AND GOLLER; SUGIYAMA NAOTO; SHIROGANE HIROSHI; AKAMATSU TOSHIKI; YAMASAKI YUKUZO

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

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to a composition comprising a) from 1 to 98 weight percent of a first propylene polymer having a melting point of 100°C or more, b) from 5 to 98 weight percent of a second propylene polymer having a heat of fusion of 70 J/g or less and a tacticity index of 75 percent or more, and c) from 0.5 to 75 weight percent of a non-functionalized plasticizer ("NFP") having a viscosity index of 120 or more, based upon the weight of the first polymer, second polymer, and the NFP, and articles therefrom

Classifications:

International (IPC 8-9): C08K5/00 C08L23/10 C08L23/14 (Advanced/Invention);
C08K5/00 C08L23/00 (Core/Invention)

CPC: D01F1/10 D01F6/46 C08L23/10 C08L23/14 C08L23/142 C08L2205/02 C08L2314/06

European: C08L23/10 C08L23/14A M08L205/02 M08L23/10 M08L23/14 M08L314/06

Family:

Publication number	Publication date	Application number	Application date
CN101193970 A	20080604	CN200680020328	20060317
CN101193970 B	20120620	CN200680020328	20060317
EP1893686 A1	20080305	EP20060738621	20060317
WO06118674 A1	20061109	WO2006US09583	20060317

Priority:

US20050119072 20050429 WO2006US09583 20060317

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; EXXON MOBIL CHEM PATENTS INC ; EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; LI WEN ; TSE MUN FU ; IYER SRIVATSAN SRINIVAS

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CHAPMAN BRYAN R ; IYER SRIVATSAN SRINIVAS ; LI WEN ; TSE MUN FU ; WEN LI ; TSE MUN F ; IYER SRIVATSAN S

Agent(s): GERSTBERGER GISELA ET AL

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

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

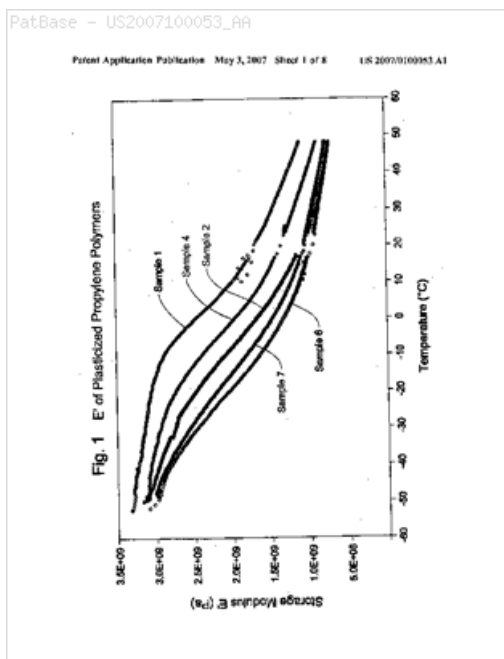
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International (IPC 8-9): C08J3/12 C08J3/18 C08J3/20 C08K5/00 C08K5/01 C08L23/02 C08L23/08 C08L23/10 C08L23/16 C08L23/18 C08L23/20 (Advanced/Invention); C08K5/00 C08L23/12 C08L23/18 C08L23/22 C08L57/00 C08L91/00 (Advanced/Non-invention)

CPC: Y10T442/30 Y10T442/60 C08L23/10 C08K5/0016 C08K5/01 C08L23/0815 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06

European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00

US: 524/474 524/490 524/490S 524/491 524/579 524/582 524/582S 524/583 524/583S 524/584 524/584S



Family:

Publication number	Publication date	Application number	Application date
US2007100053 AA	20070503	US20060585761	20061024
US7619027 BB	20091117	US20060585761	20061024

Priority:

US20020402665P 20020812 US20030640435 20030812 US20060585761 20061024

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; EXXONMOBIL CHEM PATENTS INC ; LOHSE DAVID J ; SCHREGENBERGER SANDRA D ; LUNDMARK BRUCE R

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): CHAPMAN BRYAN R ; LOHSE DAVID J ; LUNDMARK BRUCE R ; SCHREGENBERGER SANDRA D ; SCHREGENBERGER SANDRA DENISE

Inventor(s): SCHREGENBERGER SANDRA ; LUNDMARK BRUCE ; LOHSE DAVID ; CHAPMAN BRYAN

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; KEVIN M; ROBERT L; CATHERINE L

Title: OXYGEN-ABSORBING RESIN, OXYGEN-ABSORBING RESIN COMPOSITION AND OXYGEN-ABSORBING CONTAINER

Abstract: Disclosed is an oxygen-absorbing resin which exhibits excellent oxygen absorption performance even in the absence of a transition metal catalyst. Specifically disclosed is an oxygen-absorbing resin which is composed of a copolyester obtained by copolymerizing at least the following monomers (A)-(C). Monomer (A): a dicarboxylic acid or a derivative thereof having a carbon atom bonded to both the structures (a) and (b) below and also bonded to one or two hydrogen atoms, wherein the carbon atom is contained in an alicyclic structure (a) a carbon-carbon double bond group (b) any one of a functional group containing a heteroatom or a linking group derived from such a functional group, a carbon-carbon double bond group and an aromatic ring Monomer (B): at least one selected from the group consisting of a dicarboxylic acid having an aromatic ring or a derivative thereof, and a hydroxycarboxylic acid having an aromatic ring or a derivative thereof Monomer (C): a diol

Classifications:

International (IPC 8-9): B01D53/14 B01J20/26 B29D22/00 B29D23/00 B32B1/00 B32B1/08 B32B27/00 B32B27/36 B65D1/00 B65D1/28 B65D25/34 B65D65/40 B65D77/00 B65D81/24 B65D81/26 C08G63/00 C08G63/06 C08G63/127 C08G63/18 C08G63/52 C08G63/55 C08G63/553 C08G63/56 C08G63/60 C08L101/00 C08L23/04 C08L23/06 C08L67/02 C08L67/06 (Advanced/Invention); B65D1/00 C08G63/553 C08G63/60 C08L67/06 (Advanced/Non-invention); B01D53/14 B01J20/22 B32B1/00 B32B27/00 B32B27/36 B65D1/00 B65D1/22 B65D25/00 B65D65/40 B65D77/00 B65D81/24 B65D81/26 C08G63/00 C08G63/553 C08G63/56 C08L101/00 C08L23/00 C08L23/04 C08L67/00 (Core/Invention)

International (IPC 1-7): C08G 63/56 C08L

CPC: Y10T428/1341 Y10T428/1352 Y10T428/1379 B32B27/36 B01D53/02 A23L3/3436 B01D2257/104 B01J20/26 B01J20/261 B01J20/262 B65D51/244 B65D81/266 Y10T428/31786 C08G63/60 C08G63/553

European: A23L3/3436 B01D53/02 B01J20/26 B01J20/26B B01J20/26E B32B27/36 B65D51/24E B65D81/26F C08G63/553 C08G63/60 L01D257/104

US: 252/188.28 428/35.4 428/35.7 428/35.700P 428/36.6 428/480 524/601 524/604 524/604S 524/605 524/605S 525/168 525/168S 525/174 525/174S 528/271 528/272 528/304 528/304S 528/305 528/305S 528/307 528/308 528/361

시험예	산화수용수지	모노머 조성비 (mol%)										T _g (°C)	현탁성	산소흡수량 (ml/cm ²)		시험평가	
		A					C							3일차	14일차		
		TPA	IPA	EG	BG	CHM	AA	SA	EG	BG	CHM						AA
시험예 1	E	18	60	—	—	100	—	—	—	—	—	—	—	—	0.031	0.116	○
시험예 2	F	23	50	—	—	100	—	—	—	—	—	—	—	—	0.052	0.176	○
시험예 3	G	27	40	—	—	—	—	—	—	—	—	—	—	—	0.061	0.190	○
시험예 4	H	23	45	5	—	100	—	—	—	—	—	—	—	—	0.035	0.228	○
시험예 5	I	23	40	10	—	100	—	—	—	—	—	—	—	—	0.054	0.223	○
시험예 6	J	23	50	—	30	70	—	—	—	—	—	—	—	—	0.036	0.139	○
시험예 7	K	23	50	—	—	90	10	—	—	—	—	—	—	—	0.075	0.200	○
시험예 8	L	23	50	—	—	80	20	—	—	—	—	—	—	—	0.087	0.260	○
시험예 9	M	23	45	—	—	100	—	—	—	—	—	—	—	—	0.070	0.208	○
시험예 10	N	23	40	—	—	100	—	—	—	—	—	—	—	—	0.082	0.230	○
시험예 11	O	23	45	—	—	100	—	—	—	—	5	—	—	—	0.065	0.214	○
시험예 12	P	23	42.5	—	—	100	—	—	—	—	7.5	—	—	—	0.100	0.254	◎
시험예 13	Q	23	40	—	—	100	—	—	—	—	10	—	—	—	0.090	0.271	△
시험예 14	R	23	35	—	—	100	—	—	—	—	15	—	—	—	0.045	0.312	○
시험예 15	S	23	45	—	—	95	5	—	—	—	5	—	—	—	0.083	0.232	○
시험예 16	T	23	45	—	—	90	10	—	—	—	5	—	—	—	0.088	0.253	○
시험예 17	U	23	40	—	—	95	5	—	—	—	10	—	—	—	0.090	0.279	○
시험예 18	V	23	40	—	—	90	10	—	—	—	10	—	—	—	0.077	0.281	△
비교예 1	W	45	—	—	—	—	100	—	—	—	—	—	—	—	시험편작성불가		×
비교예 2	X	23	—	—	—	100	—	—	—	—	—	—	—	—	0.001	0.037	×
비교예 3	Y	23	—	—	—	100	—	—	—	—	—	—	—	—	0.005	0.126	×

Family:

Publication number	Publication date	Application number	Application date
AU2006316013 AA	20070524	AU20060316013	20061117
CN101360774 A	20090204	CN200680051517	20061117
CN101360774 B	20120905	CN200680051517	20061117
CN101466761 A	20090624	CN200780021703	20070403
CN101466761 B	20120613	CN200780021703	20070403
DE602006048574 D1	20160519	DE200660048574T	20061117
EP1953180 A1	20080806	EP20060842817	20061117
EP1953180 A4	20110126	EP20060842817	20061117
EP1953180 B1	20160406	EP20060842817	20061117
EP2036936 A1	20090318	EP20070740886	20070403
EP2036936 A4	20110126	EP20070740886	20070403
EP2036936 B1	20180606	EP20070740886	20070403
JP2007302874 A2	20071122	JP20070077479	20070323
JP2008007739 A2	20080117	JP20060313143	20061120
JP2008038126 A2	20080221	JP20060305369	20061110
JP5212883 B2	20130619	JP20070077479	20070323
JP5266602 B2	20130821	JP20060313143	20061120
JP5505852 B2	20140528	JP20060305369	20061110
KR101298253 B1	20130822	KR20087012147	20061117
KR101345998 B1	20131231	KR20087024861	20070403
KR20080068087 A	20080722	KR20087012147	20061117
KR20080112288 A	20081224	KR20087024861	20070403
TH63936 B	20180801	TH20071001720	20070409
TH89670 A	20080512	TH20061005738	20061120
TH92816 A	20081230	TH20071001720	20070409
US2008227912 AA	20080918	US20080123569	20080520

US2009098323 AA	20090416	US20080249397	20081010
US2010087619 AA	20100408	US20090632174	20091207
US7696300 BB	20100413	US20080123569	20080520
US7842361 BB	20101130	US20080249397	20081010
WO07058313 A1	20070524	WO2006JP322994	20061117
WO07119657 A1	20071025	WO2007JP57450	20070403

Priority:

JP20050336123 20051121 JP20060109793 20060412 JP20060153644 20060601
JP20060190568 20060711 JP20060305369 20061110 EP20060842817 20061117
WO2006JP22994 20061117 WO2006JP322994 20061117 JP20060313143 20061120
JP20070077479 20070323 WO2007JP57450 20070403 US20080123569 20080520
US20090632174 20091207

Probable Assignee: TOYO SEIKAN KAISHA LTD

Assignee(s): (std): ISHIZAKI YOICHI ; OHTA YOSHIHIRO ; TOYO SEIKAN GROUP HOLDINGS LTD ; TOYO SEIKAN KAISHA LTD

Inventor(s): (std): ISHIZAKI YOICHI ; OHTA YOSHIHIRO ; YOICHI ISHIZAKI ; YOSHIHIRO OHTA ; OTA YOSHIHIRO

Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; HORNER MARTIN GRENVILLE ET AL; GIBBS RICHARD; CHAPMAN PAUL GILMOUR ET AL; CHAPMAN PAUL GILMOUR; HOFFMANN AND BARON LLP

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 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 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

Title: SOLAR CONTROL LAMINATES

Abstract: Provided is a solar control composition comprising an infrared absorbing phthalocyanine compound or naphthalocyanine compound and a resin having a modulus from 20,000 psi (138 MPa) to 1000 psi (7 MPa) and solar control laminates comprising the solar control composition of the invention.

Classifications:

International (ipc 8-9): B32B17/10 B32B27/20 B32B27/30 B32B9/04 C03C27/12 C08K5/00 C08K5/3467 C08L101/12 C08L23/08 C08L29/14 C08L31/04 C09B67/00 C09D123/08 C09D129/04 C09D129/14 C09D131/04 C09D17/00 C09D5/32 F21V9/00 F21V9/04 F21V9/06 (Advanced/Invention); B32B17/10 C08K5/00 C09B47/04 C09B47/18 C09B67/00 C09D17/00 (Advanced/Non-invention); B32B17/06 B32B27/20 B32B27/30 B32B9/04 C03C27/12 C08K5/00 C08L101/00 C08L29/00 C08L31/00 C09B67/00 C09D129/00 C09D131/00 C09D17/00 C09D5/32 F21V9/00 (Core/Invention); C08K5/00 C09B47/04 C09B67/00 C09D17/00 (Core/Non-invention)
CPC: B32B27/22 B32B27/28 B32B27/306 B32B2307/412 B32B2307/518 B32B17/10633 B32B17/10651 B32B17/10788 C08K5/0041 B29C47/0021 B29C47/0057 B29C47/043 B29C47/065 B29C47/067 B29K2105/256 C09B67/0064 C09D5/32 Y10T428/31504 Y10T428/3163 Y10T428/31935 Y10T428/31942 Y10T428/31627 Y10T428/31645 Y10T428/31649 Y10T428/31855 B32B17/10036 B32B17/10761 B32B27/36 B32B17/10 B32B27/08 B32B27/18 B32B27/30 B32B23/04 B32B23/20 B32B27/16 B32B27/20 B32B27/285 B32B27/286 B32B27/302 B32B27/304 B32B27/308 B32B27/32 B32B27/325 B32B27/327 B32B27/34 B32B27/365 B32B27/40 B32B2255/10 B32B2255/24 B32B2255/26 B32B2307/40 B32B2307/50 B32B2307/71 B32B2419/00 B32B2605/00 B32B2605/006 B32B27/06 Y10T428/249921 E06B9/24 E06B2009/2405 B32B7/12 B32B9/045 B32B2307/42 B32B2551/00 B32B17/10275
European: B32B17/10 B32B17/10C4 B32B17/10E12 B32B17/10E26 B32B17/10G28 B32B17/10G36 B32B17/10G6D B32B17/10G8 B32B27/06 B32B27/08 B32B27/18 B32B27/30 B32B27/36 C08K5/00P4 C09B67/00N3B C09D5/32 L29C47/00J5 L29C47/00L8 L29C47/04A L29C47/06P L29C47/06Q L29K105/25C4
US: 252/587 252/587P 252/587S 252/589P 359/355 359/356 359/361 427/160 427/160P 427/407.1 427/407.100S 428/221 428/221S 428/411.1 428/411.100S 428/436 428/437 428/437S 428/441 428/442 428/500 428/500S 428/522 428/522S 428/524 428/524S 523/135

Family:

Publication number	Publication date	Application number	Application date
CN101351330 A	20090121	CN200680050093	20061229
CN101351330 B	20130327	CN200680050093	20061229
DE602006048488 D1	20160512	DE200660048488T	20061229
EP1976691 A2	20081008	EP20060848370	20061229
EP1976691 B1	20160330	EP20060848370	20061229
JP2009526872 T2	20090723	JP20080548777T	20061229
JP5561936 B2	20140730	JP20080548777T	20061229
KR101337818 B1	20131212	KR20087018621	20061229
KR20080106403 A	20081205	KR20087018621	20061229
US2007228341 AA	20071004	US20060646649	20061228
US2008057185 AA	20080306	US20070977817	20071026
US2010096604 AA	20100422	US20090644230	20091222
US8178206 BB	20120515	US20090644230	20091222
WO07079248 A2	20070712	WO2006US49630	20061229
WO07079248 A3	20070823	WO2006US49630	20061229
WO07079248 C1	20080925	WO2006US49630	20061229

Priority:

US20050755487P 20051230	US20050755492P 20051230	US20060755487P 20060103
US20060646649 20061228	EP20060848370 20061229	WO2006US49630 20061229
US20070977817 20071026	US20090644230 20091222	

Probable Assignee: KURARAY CO LTD

Assignee(s): (std): EIDU PONT DE NEMOURS AND CO ; FUGIEL RICHARD A ; SILVERMAN LEE A ; HAYES RICHARD A ; PHILLIPS THOMAS R ; WALL JASON S ; HAYES RICHARD ALLAN ; KURARAY AMERICA INC ; DU PONT ; KURARAY CO LTD

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 ; EI DU PONT DE NEMOURS AND CO ; KURARAY AMERICA INC HOUSTON

Inventor(s): (std): FUGIEL RICHARD A ; HAYES RICHARD A ; HAYES RICHARD ALLAN ; PHILLIPS THOMAS R ; SILVERMAN LEE A ; WALL JASON S

Inventor(s): FUGIEL RICHARD ; SILVERMAN LEE A NEWARK ; WALL JASON ; PHILLIPS THOMAS R VIENNA ; SILVERMAN LEE ; PHILLIPS THOMAS ; HAYES RICHARD A BEAUMONT ; FUGIEL RICHARD A LONG GROVE ; HAYES RICHARD

Agent(s): ABITZ AND PARTNER PATENTANWALTE MBB; DANNENBERGER OLIVER ANDRE; 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; E I DU PONT DE NEMOURS AND COMPANY,LEGAL PATENT RECORDS CENTER; KELLY LAW REGISTRY; MARIA M

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

Title: BARRIER COATINGS FOR FILMS AND STRUCTURES

Abstract: The invention provides coated substrates comprising a substrate; and a coating on at least one surface of the substrate comprising vermiculite, polymer capable of forming a film, dispersion agent for the vermiculite in the polymer, said dispersion agent bearing a negative charge, and cross-linking agent. The invention also provides articles coated with such coatings and methods for making the coated substrates and articles.

Classifications:

International (ipc 8-9): B05D7/00 B32B27/18 B32B27/20 B32B27/26 B32B27/30 B32B27/36 B32B27/40 C08J7/04 C09D5/02 C09D7/12 C09J7/02 (Advanced/Invention); C09D7/12 (Advanced/Non-invention); B05D7/00 B32B27/40 C09D5/02 C09D7/12 C09J7/02 (Core/Invention)

International (ipc 1-7): C09D5/02 C09D7/12

CPC: B32B27/08 B32B25/02 B32B25/08 B32B25/14 B32B25/16 B32B25/18 B32B27/10 B32B27/304 B32B27/306 B32B27/36 B32B27/40 B32B2255/10 B32B2255/12 B32B2255/26 B32B2264/10 B32B2439/70 B32B2439/80 C08K3/34 C09D5/024 Y10T428/1379 Y10T428/25 Y10T428/256 Y10T428/258 Y10T428/259 Y10T428/28 Y10T428/2813 Y10T428/2817 Y10T428/2826 Y10T428/2878 Y10T428/31551 Y10T428/31725 Y10T428/31739 Y10T428/31743 Y10T428/31746 Y10T428/31786 Y10T428/31797 Y10T428/31855 Y10T428/3188 Y10T428/31895 Y10T428/31909 Y10T428/31913 Y10T428/3192 Y10T428/31928 Y10T428/31935 Y10T428/31938 C09D7/61

European: B32B27/00 C09D5/02K C09D7/12D2 M08K3/34

US: 106/626 106/635 106/636 427/407.1 427/407.100S 428/25.4 428/323 428/328 428/330 428/331 428/343 428/346 428/347 428/349 428/355.0EN 428/355EN 428/36.6 428/423.1 428/423.100P 428/474.4 428/475.5 428/475.8 428/476.1 428/480 428/483 428/500 428/507 428/511 428/515 428/516 428/518 428/520 428/522 428/523 524/442 524/444 524/445 524/445S 524/450 524/456 524/492 524/493

시험 항목	PVOH 10% (g)	황산수소 (g)	시료용 20 (g)	아이소프로판올 963 (g)	비행 62125AM (g)	광리축합 (g)
1	15.5	23.8	0.2	5.0	0.3	2.0
2	15.5	24.8	0.2	5.0	0.3	1.0
3	15.5	25.3	0.2	5.0	0.3	0.5
4	15.5	25.6	0.2	5.0	0.3	0.2

Family:

Publication number	Publication date	Application number	Application date
AT466056 E	20100515	AT20070776576T	20070430
BRPI0710416 A2	20110809	BR2007PI10416	20070430
CA2650797 AA	20081030	CA20072650797	20070430
CA2650797 C	20140520	CA20072650797	20070430
CN101479352 A	20090708	CN200780023994	20070430
CN101479352 B	20120118	CN200780023994	20070430
DE602007006179 D1	20100610	DE200760006179T	20070430
EP2019852 A2	20090204	EP20070776576	20070430
EP2019852 B1	20100428	EP20070776576	20070430
EP2019852 B2	20160518	EP20070776576	20070430
IN04794KN2008 A	20090320	IN2008KN04794	20081126
IN265951 B	20150327	IN2008KN04794	20081126
JP2009535489 T2	20091001	JP20090509669T	20070430
JP5479089 B2	20140423	JP20090509669T	20070430
KR101384029 B1	20140409	KR20087029161	20070430
KR20090014361 A	20090210	KR20087029161	20070430
MX2008013961 A1	20090128	MX20080013961	20070430
RU2008147102 A	20100610	RU20080147102	20070430
RU2435811 C2	20111210	RU20080147102	20070430
US2007254160 AA	20071101	US20070742138	20070430
US8080297 BB	20111220	US20070742138	20070430
WO07130417 A2	20071115	WO2007US10561	20070430
WO07130417 A3	20071227	WO2007US10561	20070430

Priority:

US20060746047P 20060501 US20060746074P 20060501 US20070742138 20070430
WO2007US10561 20070430

Probable Assignee: NANOPACK INC

Assignee(s): (std): KRAVITZ HOWARD S ; LEVITT FRED ; NANOPACK INC ; NANOPAK INC ; NANOPEHK INK

Inventor(s): (std): FRED LEVITT ; KRAVITTS KHOVAR D S ; LEVIT FRED ; LEVITT FRED ; KRAVITZ HOWARD S

Inventor(s): FRED LEVIT ; KRAVITZ HOWARD ; HOWARD S KRAVITZ

Agent(s): SMART AND BIGGAR; HALLYBONE HUW GEORGE; WOODCOCK WASHBURN LLP

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 DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FLAT-FOLD RESPIRATOR WITH MONOCOMPONENT FILTRATION/STIFFENING MONOLAYER

Abstract: A flat-fold respirator is made from a stiff filtration panel joined to the remainder of the respirator through at least one line of demarcation. The panel contains a porous monocomponent monolayer nonwoven web that contains charged intermingled continuous monocomponent polymeric fibers of the same polymeric composition and that has sufficient basis weight or inter-fiber bonding so that the web exhibits a Gurley Stiffness greater than 200 mg and the respirator exhibits less than 20 mm H₂O pressure drop. The respirator may be formed without requiring additional stiffening layers, bicomponent fibers, or other reinforcement and can be flat-folded for storage. Scrap from the manufacturing process may be recycled to make additional stiff filtration panel web.

Classifications:

International (IPC 8-9): A41D13/11 A62B18/02 A62B23/02 A62B7/00 A62B7/10 A62B9/06 B01D35/00 B01D39/00 B01D39/14 B01D39/16 B01D46/00 B01D46/52 B03C3/28 B29C39/00 B29C43/02 B29C51/02 B29C53/04 B29C59/00 B29C65/10 B29C67/00 B29C67/20 B32B3/26 B32B5/24 B60R21/16 D01D5/08 D01D5/098 D01F6/62 D04H1/00 D04H1/4382 D04H1/54 D04H1/544 D04H1/56 D04H1/70 D04H13/00 D04H17/00 D04H3/00 D04H3/016 D04H3/02 D04H3/03 D04H3/04 D04H3/08 D04H3/10 D04H3/115 D04H3/14 D04H3/153 D04H3/16 D04H5/00 D04H5/06 D04H5/08 D06J1/00 D06M10/02 G11B5/70 G11B5/706 H05B7/00 (Advanced/Invention); B01D39/14 B01D39/16 B01D46/52 B03C3/28 (Advanced/Non-invention); A62B18/00 A62B7/00 B01D35/00 B01D39/00 B01D39/14 B01D39/16 B01D46/00 B01D46/52 B03C3/00 B29C53/00 B29C67/00 B32B3/26 B32B5/22 B60R21/16 D01D5/08 D01F6/62 D04H1/00 D04H1/54 D04H1/56 D04H13/00 D04H17/00 D04H3/02 D04H3/08 D04H3/14 D04H3/16 D04H5/00 D06J1/00 G11B5/70 G11B5/706 (Core/Invention); B01D39/16 B01D46/52 (Core/Non-invention)

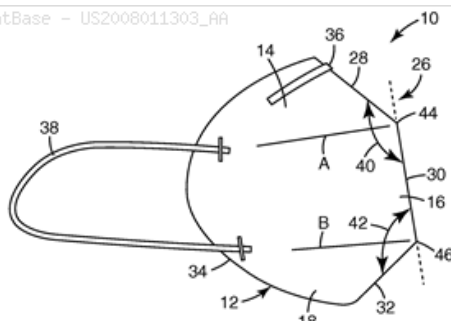
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PatBase - US2008011303_AA

**Family:**

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Probable Assignee: 3M CO

Assignee(s): (std):	3M INNOVATIVE PROPERTIES CO ; BERRIGAN MICHAEL R ; FAY WILLIAM T ; FOX ANDREW R ; BRANDNER JOHN M ; ANGADJIVAND SEYED A ; 3M INNOVEJTIV PROPERTIZ KOMPAN ; 3M INNOVEJTIV PROPERTIZ KOMPANI ; 3M INNOVATIVE PROPERTIES COMPANY ; 3M INNOVATIVE PROPERTIES CO ; 3M INNOVATION CO LTD ; 3M INNOVATIVE PROPERETIES CO ; 3M INNOVATIVE PROPERETIES COMPANY ; 3M INNOVATIVE PROPERIES CO ; 3M INNOVATIVE PROPERIES COMPANY ; STELTER JOHN D ; PERCHA PAMELA A ; LINDQUIST TIMOTHY J ; SPRINGETT JAMES E ; JONES MARVIN E ; 3M CO ; KOPECKY WILLIAM J
Assignee(s):	3M INNOVATION CO ; MEDTRONIC INC ; 3M INNOVATIVE PROPERTIES COMPANY ; 3M INNOVATIVE PROPERTIES CO3M CENTERSAINT PAULMN55133-3427US ; 3M INNOVATIVE PROPERTIES CO SAINT PAUL ; 3M INNOVATIVE PROPERTIES CO ST PAUL
Inventor(s): (std):	FOKS ANDRE R ; FOKS ANDRJU R ; FOX ANDREW R ; JAMES E SPRINGETT ; JOHN D STELTER ; JOHN M BRANDNER ; FOX ANDREW ROBERT ; JONES MARVIN E ; LINDK JUIST TIMOTI DZH ; SEYED A ANGADJIVAND ; SPRINGETT DZHEJMS E ; LINDQUIST TIMOTHY JOHN ; SPRINGETT JAMES E ; SPRINGETT JAMES EMMONS ; STEHLTER DZHON D ; STELTER JOHN D ; STELTER DZHON D ; TIMOTHY J LINDQUIST ; DZHONS MARVIN E ; BRENDNER DZHON M ; BRANDNER JOHN MICHAEL ; BRANDNER JOHN M ; BERRIGAN MICHAEL R ; ANGADZHIVAND SIJED A ; ANGADDZHIVAND SEJED A ; ANDREW R FOX ; MICHAEL R BERRIGAN ; MARVIN E JONES ; KOPECKY WILLIAM J ; SPRINGETT DZHEMS E ; PERCHA PAMELA A ; LINDQUIST TIMOTHY J ; ANGADJIVAND SEYED A ; KOPECKY WILLIAM JOHN ; FAY WILLIAM T ; EHRRIGAN MISHL R ; DZHONES MARVIN E ; ANGADJIVAND SEYED ABOLHASSAN ; KOPESKI VIL JAM DZH
Inventor(s):	EHRRIGAN MISHL' R. ; ANGADJIVAND SEYED ; KOPESKI VIL'JAM DZH. ; SPRINGETT JAMES E SAINT PAUL ; KOPECKY WILLIAM J SAINT PAUL ; WILLIAM T FAY ; PAMELA A PERCHA ; ANGADJIVAND SEYED AUS ; BERRIGAN MICHAEL ; BRANDNER JOHN ; BRANDNER JOHN MUS ; WILLIAM J KOPECKY ; FAY WILLIAM T SAINT PAUL ; STELTER JOHN ; STELTER JOHN D AND ; STELTER JOHN D SAINT PAUL ; STELTER JOHN DUS ; SPRINGETT JAMES EUS ; SPRINGETT JAMES E WEBSTER ; LINDQUIST TIMOTHY JUS ; PERCHA PAMELA A SAINT PAUL ; SPRINGETT JAMES ; LINDK'JUIST TIMOTI DZH. ; LINDQUIST TIMOTHY ; LINDQUIST TIMOTHY J SAINT PAUL ; JONES MARVIN E SAINT PAUL ; KOPECKY WILLIAM ; FOX ANDREW RUS ; JONES MARVIN ; FOX ANDREW R SAINT PAUL ; FOX ANDREW ; ANGADJIVAND SEYED A SAINT PAUL ; BERRIGAN MICHAEL R SAINT PAUL ; BRANDNER JOHN M SAINT PAUL
Agent(s):	DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; VOORTMANS GILBERT JL; VOORTMANS GILBERT J L; ISARPATENT; VOSSIUS AND PARTNER; HILL CECILIA ANN; HERMANN GERHARD; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; YAMAZAKI HIROSHI; TANAKA MITSUO; OHATA YASUSHI; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; KENNETH B; ROGER R; JAMES A; KARL G; TAMTE ROGER R ET AL; HANSON KARL G ET AL; WOOD KENNETH B ET AL
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

Title: FIBERS AND NONWOVENS FROM PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to fibers and nonwovens made from plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

Classifications:

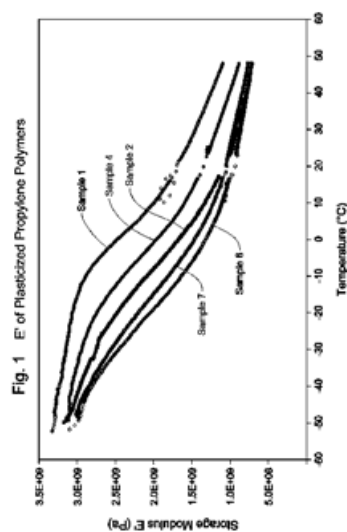
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US: 514/788.1 514/788.100P 524/474 524/487 524/491 524/570 524/570S 524/583 524/583S 525/191 525/240

PatBase - US2008070994_AA

Patent Application Publication Mar. 20, 2008 Sheet 1 of 8 15 2008/070994 A1



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Priority:

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Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; EXXONMOBIL CHEM PATENTS INC ; KELLY MICHAEL B ; LI WEN ; LIN CHON YIE

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): CHAPMAN BRYAN R ; KELLY MICHAEL B ; LI WEN ; LIN CHON YIE

Inventor(s): KELLY MICHAEL ; CHAPMAN BRYAN

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; KEVIN M; CATHERINE L

Title: POLYETHYLENE COMPOSITIONS, METHODS OF MAKING THE SAME, AND ARTICLES PREPARED THEREFROM

Abstract: The invention is related to films formed from a composition, comprising a blend, wherein said blend comprises a high molecular weight ethylene-based interpolpolymer and a low molecular weight ethylene-based interpolpolymer, and the high molecular weight ethylene-based interpolpolymer is a heterogeneously branched linear or a homogeneously branched linear ethylene-based interpolpolymer, and has a density from 0.922 g/cc to 0.929 g/cc, and a high load melt index (I21) from 0.2 g/10 min to 1.0 g/10 min, and the low molecular weight ethylene-based interpolpolymer is heterogeneously branched linear or a homogeneously branched linear ethylene-based interpolpolymer, and has a density from 0.940 g/cc to 0.955 g/cc, and a melt index (I2) from 6 g/10 min to 50 g/10 min. The blend has a single peak in an ATREF profile eluting above 30 degrees centigrade, and has a coefficient of viscosity average molecular weight (CMv) less than -0.0032 in the log(calculated Mv) versus elution temperature, said CMv calculated in the range of elution temperatures from 70 degrees centigrade to 90 degrees centigrade. The Mv is the viscosity average molecular weight.

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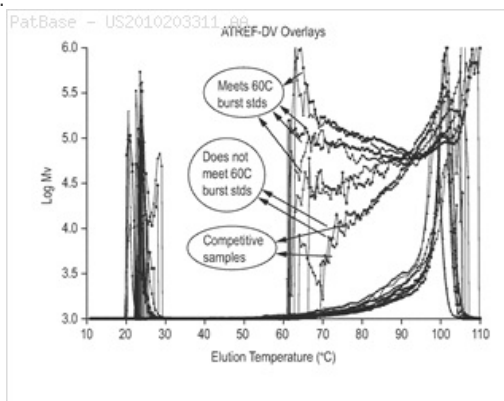
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US: 428/220 428/220P 525/191 525/240 525/240S



Family:

Publication number	Publication date	Application number	Application date
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CA2691287 AA	20091211	CA20072691287	20071019
CA2691287 C	20150707	CA20072691287	20071019
CN101778898 A	20100714	CN200780100229	20071019
CN101778898 B	20140625	CN200780100229	20071019
DE602007014118 D1	20110601	DE200760014118T	20071019
EP2158262 A1	20100303	EP20070844438	20071019
EP2158262 B1	20110420	EP20070844438	20071019
ES2362047 T3	20110627	ES20070844438T	20071019
IN07312CN2009 A	20100312	IN2009CN07312	20091214
KR20100040848 A	20100421	KR20107000644	20071019
MX2009013619 A1	20100222	MX20090013619	20071019
RU2010100869 A	20110720	RU20100100869	20071019
RU2448991 C2	20120427	RU20100100869	20071019
TH98296 A	20090917	TH20071005291	20071019
TW200833760 A	20080816	TW20070139486	20071022
US2010203311 AA	20100812	US20070664012	20071019
US8318862 BB	20121127	US20070664012	20071019
WO08153586 A1	20081218	WO2007US81894	20071019

Priority:

US20060853652P 20061023 US20070943680P 20070613 US20070664012 20071019
WQ2007US81894 20071019

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DAU GLOBAL TEKNOLODZHIZ EHLEHLSI ; DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES INC 20 ; DOW GLOBAL TECHNOLOGIES LLC ; MICHIE WILLIAM ; MICHIE JR WILLIAM J

Assignee(s): MICHIE WILLIAM J JR ; DOW GLOBAL TECHNOLOGIES INC 2040 DOW CENTER

Inventor(s): (std): MICHIE JR WILLIAM J ; MICHIE WILLIAM ; MICHIE JR ; WILLIAM MICHIE ; MICHIE WILLIAM J JR ; MICHIE WILLIAM

Inventor(s): MICHIE WILLIAM J ; MICHI UILL'JAM

Agent(s): SMART AND BIGGAR; HAYES ADRIAN CHETWYND; THE DOW CHEMICAL COMPANY; DOW CHEMICAL CO; TERRY JANE

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

Title: FUNCTIONAL POLYMER COMPOSITIONS

Abstract: Functional polymer compositions and methods of forming such compositions are provided. The functional polymer compositions include at least 50 wt percent of one or more polymer components; from 0.1 to 50 wt percent of one or more fluids; and from 1 to 50 wt percent of one or more active substrates. The combination of one or more fluids and one or more active substrates provides an article from such polymer composition with one or more special functional effects selected from moisturizing, anti-bacterial, disinfecting, anti-viral, anti-mildew, anti-mold, anti-fungal, anti-microbial, moisture/odor absorbing, fragrancng, insect repelling, anti-static and combinations thereof. The one or more fluids and one or more active substrates are released to the surface of polymer based articles. The functional polymer compositions are suitable for a wide range of end use applications including woven and non-woven fabrics.

Classifications:

International (IPC 8-9): A01N25/08 A61K31/075 A61K31/13 A61K33/00 A61K33/40 A61K36/886 A61K47/00 A61K8/18

A61K9/14 A61L9/01 B05D1/02 B29C49/00 C11D3/37 (Advanced/Invention);

A01N25/08 A61K31/075 A61K31/13 A61K33/00 A61K33/40 A61K36/88 A61K47/00 A61K8/18 A61K9/14 A61L9/01 B05D1/02 B29C49/00 C11D3/37 (Core/Invention)

CPC: A61K36/886 A01N25/10 A61K8/8111 A61K8/8117 A61K8/88 A61K31/075 A61K31/13 A61K45/06 A61K47/10 A61K47/32 A61K2800/54 A61L9/01 A61Q13/00 A61Q17/005 A61Q17/02 A61Q19/00 D01F1/10

European: A01N25/10 A61K31/075 A61K31/13 A61K36/886 A61K45/06 A61K47/10 A61K47/32 A61K8/81C2 A61K8/81C4 A61K8/88 A61L9/01 A61Q13/00 A61Q17/00F A61Q17/02 A61Q19/00 D01F1/10 K61K201/30 K61K800/54

US: 252/194 252/194S 264/572 264/572S 424/409 424/409P 424/489 424/489S 424/600 424/600S 424/613 424/613S 424/744 424/744S 427/427.6 427/427.600S 510/527 510/527S 512/8 512/8S 514/662 514/662S 514/721 514/721S 514/772.3 514/772.300S 523/122 523/122S

Family:

Publication number	Publication date	Application number	Application date
US2009041820 AA	20090212	US20080221278	20080801

Priority:

US20070963799P 20070807 US20080221278 20080801

Probable Assignee: BRITTON WILLIAM GRANT

Assignee(s): (std): BRITTON WILLIAM GRANT ; CHAPMAN BRYAN R ; CHENG CHIA YUNG ; DUNAWAY DAVID B ; GIAQUINTO JR ANTHONY JAMES ; HARVEY JOHN ANDRES ; WU MARGARET M ; JUNG HYUN DAE ; ZIELINSKI JAMES ; LUNDMARK BRUCE R

Inventor(s): (std): BRITTON WILLIAM GRANT ; CHAPMAN BRYAN R ; CHENG CHIA YUNG ; DUNAWAY DAVID B ; GIAQUINTO JR ANTHONY JAMES ; HARVEY JOHN ANDRES ; JUNG HYUN DAE ; LUNDMARK BRUCE R ; WU MARGARET M ; ZIELINSKI JAMES

Agent(s): EXXONMOBIL RESEARCH AND ENGINEERING COMPANY; EXXONMOBIL RESEARCH AND ENGINEERING CO

Title: CRYSTALLINE FORM OF 2-(4,6-BIS-BIPHENYL-4-YL-1,3,5-TRIAZIN-2-YL)-5-(2-ETHYL-(N)-HEXYLOXY)PHENOL

Abstract: The crystalline form of 2-(4,6-bis-biphenyl-4-yl-1,3,5-triazin-2-yl)-5-(2-ethyl-(n)-hexyloxy)phenol, characterized by a X-ray diffraction pattern obtained by using Cu-K α -radiation which exhibits the diffraction angles (2-Theta).

Classifications:

International (IPC 8-9): B29C65/00 B29D22/00 B29D23/00
B32B1/08 B32B27/00 B32B27/36 B32B3/00 C07D251/12
C07D251/24 C08K5/3492 C08L101/00 C08L23/02 C08L23/04
C08L33/06 C08L33/12 C08L67/00 C08L69/00

D04H13/00 (Advanced/Invention);
C07D251/24 C08K5/3492 (Advanced/Non-invention);
C07D251/00 C08K5/00 (Core/Invention);
C07D251/12 (Core/Non-invention)

International (IPC 1-7): C07D251/24

CPC: Y10T428/1345 Y10T428/1352 Y10T428/31507 Y10T428/31786
Y10T428/31855 Y10T442/60 C07D251/24 C08K5/3492

European: C07D251/24 C08K5/3492

US: 252/182.29 252/182.290S 252/405 252/405S 428/35.5
428/35.500P 428/35.7 428/412 428/412S 428/480 428/480S
428/500 428/500S 442/327 442/327P 524/100 524/100S 544/216
544/216S

2-Theta	每秒計數
3.49	137
6.67	5421
6.99	3946
7.41	2659
8.91	33
9.61	86
10.47	149
11.49	353
12.29	468
13.29	284
14.54	461
15.68	317
16.21	47
17.52	652
17.91	827
19.14	730
20.88	321
22.00	211
22.49	309
24.03	54
24.88	272
25.67	360
26.28	189

Family:

Publication number	Publication date	Application number	Application date
AU2008333325 AA	20090611	AU20080333325	20081126
AU2008333325 BB	20130502	AU20080333325	20081126
BRPI0819786 A2	20150505	BR2008PI19786	20081126
CA2706097 AA	20090611	CA20082706097	20081126
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CN101939305 B	20130807	CN200880118997	20081126
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EP2229370 A1	20100922	EP20080856285	20081126
EP2229370 B1	20140709	EP20080856285	20081126
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IN03301CN2010 A	20101126	IN2010CN03301	20100602
IN289565 B	20171117	IN2010CN03301	20100602
JP2011505400 T2	20110224	JP20100536408T	20081126
JP5713678 B2	20150507	JP20100536408T	20081126
KR101587295 B1	20160121	KR20107013604	20081126
KR20100103527 A	20100927	KR20107013604	20081126
TW200930705 A	20090716	TW20080146566	20081201
TWI427069 B	20140221	TW20080146566	20081201
US2011027509 AA	20110203	US20080744717	20081126
US2012094565 AA	20120419	US20110330753	20111220
US8105668 BB	20120131	US20080744717	20081126
US8518503 BB	20130827	US20110330753	20111220
WO09071475 A1	20090611	WO2008EP66208	20081126

Priority:

EP20070122095 20071203
US20100744717 20101015

EP20080856285 20081126
US20110330753 20111220

WO2008EP66208 20081126

Probable Assignee: BASF SE

Assignee(s): (std): BASF AG ; BASF SE ; BRUNNER FREDERIC ; CIBA HOLDING INC ; GROB MARKUS ; VON BUEREN MARTIN ; FUJIKI DAISUKE

Assignee(s): VON BUREN MARTIN ; CIBA HOLDING INC CH

Inventor(s): (std): BUREN MARTIN VON ; DAISUKE FUJIKI ; FREDERIC BRUNNER ; VON BUREN MARTIN ; VON BUEREN MARTIN ; GROB MARKUS ; FUJIKI DAISUKE ; BRUNNER FREDERIC ; MARKUS GROB

Inventor(s): MARTIN VON BUREN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; ROBIC; CARPINTERO MARIO; BASF PATENT DEPARTMENT CORP; TYLER A; CIBA HOLDING INC

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

Title: ETHYLENE-BASED POLYMERS AND ARTICLES MADE THEREFROM

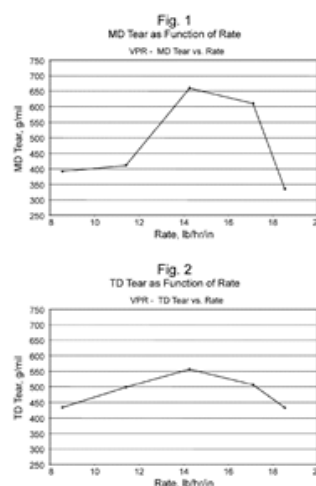
Abstract: Provided are ethylene-based polymer compositions, articles made therefrom, and methods of making the same. Ethylene-based polymer compositions include linear low density polyethylene prepared with metallocene catalyst, which may optionally have about 5 mole percent or less of monomer units derived from an alpha-olefin comonomer. Ethylene-based polymer compositions include blends of linear low density polyethylene and one or more very low density polyethylene compositions, one or more low density polyethylene compositions, one or more medium density polyethylene compositions, one or more high density polyethylene compositions, one or more differentiated polyethylene compositions, or other conventional polymers. Articles composed of such ethylene-based polymer compositions are prepared according to a process window, e.g., at a specific extrusion rates, which provides favorable physical properties, including tear resistance and dart drop properties. Films prepared according to these techniques exhibit physical properties equivalent to, or superior than, conventional linear low density polyethylenes prepared with Ziegler-Natta catalyst.

Classifications:

International (IPC 8-9): B28B5/00 B29C39/14 B29C45/16 B32B27/32 C08F10/00 C08F10/02 C08F2/12 C08F2/34 C08F210/02 C08F210/06 C08F210/08 C08F210/14 C08F210/16 C08F297/08 C08F299/00 C08F4/06 C08F4/44 C08F4/52 C08F4/642 C08F4/652 C08F4/659 C08F4/6592 C08F4/76 C08J5/18 C08L23/04 (Advanced/Invention); C08F4/659 C08F4/6592 (Advanced/Non-invention); B28B5/00 B29C45/16 B32B27/32 C08F4/00 (Core/Invention) **CPC:** B29C47/0023 B29C47/0026 B29C47/009 B29C47/065 B29C47/26 B29C2791/007 B29K2023/0625 B29K2023/0641 C08F210/16 C08J2323/04 C08L23/0815 B32B27/08 B32B2250/242 B32B2307/51 B32B2307/558 B32B2307/582 B32B2307/72 B32B2307/736 B32B2439/06 B32B2439/70 B32B2535/00 B32B2553/00 B32B2555/00 B32B2555/02 B32B5/02 B32B15/04 B32B21/04 B32B27/18 B32B27/20 B32B27/327 B32B29/002 B32B2255/00 B32B2264/10 B32B2270/00 B32B2307/4026 B32B2307/518 B32B2307/54 B32B2439/80 B32B27/32 C08J5/18 C08J2323/08 C08F4/65912 C08F4/65916 C08F210/14 C08F299/00 C08F4/52 C08F2500/21 C08F2500/08 C08F2/34 C08F2500/20 C08F2500/03 C08F4/6428 C08F4/65925 C08F297/08 Y10S526/943 Y10T428/1345 Y10T428/31938 C08F10/00 C08F10/02 C08F4/6592 **European:** B29C47/00J6 B29C47/00J7 B29C47/00M14B B29C47/06P B29C47/26 B32B27/32 C08F210/16 C08F297/08 C08J5/18 L29C791/00E6 L29K23/06B3 L29K23/06B7 M08F210/16 M08F4/6592B2 M08F4/659L M08J323/04 M08J323/08 **US:** 264/239 264/239S 264/241 264/241S 264/328.1 264/328.100S 264/555 264/555S 264/557 264/557P 428/220 428/220P 428/35.5 428/523 502/114 502/152 525/249 525/319 525/319P 526/160 526/160S 526/165 526/170 526/170P 526/185 526/185S 526/189 526/189S 526/348 526/348.2 526/348.200S 526/348.3 526/348.300S 526/348.5 526/348.500S 526/348.6 526/348.600S 526/348S 526/943

PatBase - US2009156764_AA

Patent Application Publication Jan. 18, 2009 Sheet 1 of 3 US 2009/0156764 A1

**Family:**

Publication number	Publication date	Application number	Application date
CN103261239 A	20130821	CN201180059475	20111014
CN103261239 B	20160406	CN201180059475	20111014
EP2630168 A2	20130828	EP20110855376	20111014
EP2630168 A4	20141029	EP20110855376	20111014
EP2915826 A1	20150909	EP20150165707	20111014
IN04189DN2013 A	20160610	IN2013DN04189	20130510
KR101821026 B1	20180122	KR20157017353	20111014
KR20130113470 A	20131015	KR20137012791	20111014
KR20150083927 A	20150720	KR20157017353	20111014
RU2013122565 A	20141127	RU20130122565	20111014
RU2592276 C2	20160720	RU20130122565	20111014
US2009156764 AA	20090618	US20070959078	20071218
US2009297810 AA	20091203	US20080130135	20080530
US2012101235 AA	20120426	US20110275680	20111018
US2012101242 AA	20120426	US20100909412	20101021
US2012200010 AA	20120809	US20120452197	20120420
US2013231451 AA	20130905	US20130856705	20130404
US2013289213 AA	20131031	US20130856729	20130404
US8431661 BB	20130430	US20100909412	20101021
US8436114 BB	20130507	US20110275680	20111018
US8507103 BB	20130813	US20120452197	20120420
US8829138 BB	20140909	US20130856705	20130404
US8865849 BB	20141021	US20130856729	20130404
WO09082546 A2	20090702	WO2008US82049	20081031
WO09082546 A3	20130704	WO2008US82049	20081031
WO12096698 A2	20120719	WO2011US56336	20111014
WO12096698 A3	20120920	WO2011US56336	20111014

Priority:

US20070959078	20071218	US20080130135	20080530	US20100909412	20101021
EP20100194265	20101209	EP20110855376	20111014	EP20150165707	20111014
WO2011US56336	20111014	US20110275680	20111018	US20120452197	20120420
US20130856705	20130404	US20130856729	20130404		

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CROWTHER DONNA J ; EXXON MOBIL CHEM PATENTS INC ; EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; MALAKOFF ALAN M ; VAN HOYWEGHEN DANNY ; KAPPES NICOLAS ; GALUSKA ALAN A ; LU X CHRISTINA ; FISCUS DAVID M ; LU X CHRISTINIA ; UNIVATION TECH LLC ; YUNIVEJSHN TEKNOLODZHIZ LLK

Assignee(s): UNIVATION TECHNOLOGIES LLC ; LU X ; EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CROWTHER DONNA J ; FISCUS DAVID M ; FISKUS DEJVID M ; GALUSKA ALAN A ; KAPPES NICOLAS ; KRAUTER DONNA DZH ; LU X CHRISTINA ; LU X CHRISTINIA ; MALAKOFF ALAN M ; VAN HOYWEGHEN DANNY

Inventor(s): LU X

Agent(s): MARESCHAL ANNE; BOULT WADE TENNANT; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; KEVEN M; CATHERINE L; KEVIN M; ABDON ROBERT L ET AL; BELL CATHERINE L

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

Title: ORIENTED FILMS COMPRISING ETHYLENE/A-OLEFIN BLOCK INTERPOLYMER

Abstract: The present invention relates to oriented films having improved shrinkage force, shrinkage temperature, tear strength, seal strength and/or bubble stability. For example, the shrink tension of the oriented film stretched at 110 degrees centigrade is less than 3 MPa. The oriented film comprises a polymer composition comprising at least one ethylene/a-olefin interpolpolymer, wherein the ethylene/a-olefin interpolpolymer may have, for example, a Mw/Mn from about 1.7 to about 3.5, at least one melting point, Tm, in degrees Celsius, and a density, d, in grams/cubic centimeter, wherein the numerical values of Tm and d correspond to the relationship: $T_m > -6553.3 + 13735(d) - 7051.7(d)^2$.

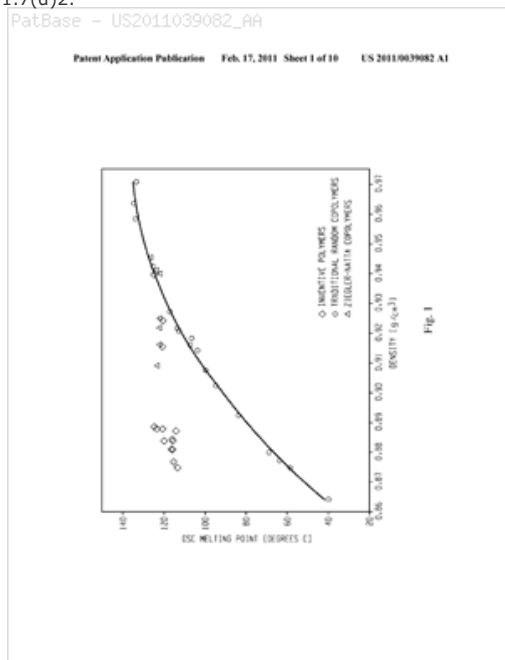
Classifications:

International (IPC 8-9): B29C55/02 B29C55/04 B29C55/10 B32B27/08 B32B27/32 B32B5/00 B32B7/02 B65D30/02 C08F210/16 C08J5/18 C08J7/00 C08L23/04 (Advanced/Invention); B29C55/02 B32B27/08 B65D30/02 C08F210/16 C08J5/18 C08J7/00 (Advanced/Non-invention); C08J5/18 C08L23/00 (Core/Invention)

CPC: Y10T428/2495 C08J2323/08 C08L23/04 C08L23/0815 Y10T428/31909 C08J5/18

European: C08J5/18 C08L23/08A1 M08J323/08 M08L23/04

US: 264/280 264/280S 428/213 428/213P 428/220 428/220S 428/515 428/515S 525/227 525/227S 525/240 525/240S 526/348 526/348S

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0820608 A2	20150616	BR2008PI20608	20080229
CN102015874 A	20110413	CN200880128881	20080229
CN102015874 B	20140827	CN200880128881	20080229
EP2250219 A1	20101117	EP20080715126	20080229
EP2250219 A4	20131106	EP20080715126	20080229
EP2250219 B1	20180516	EP20080715126	20080229
ES2682264 T3	20180919	ES20080715126T	20080229
JP2011513519 T2	20110428	JP20100547933T	20080229
JP5330414 B2	20131030	JP20100547933T	20080229
KR20100122104 A	20101119	KR20107021580	20080229
US2011039082 AA	20110217	US20080919131	20080229
WO09105938 A1	20090903	WO2008C N070390	20080229

Priority:

ES20080715126T 20080229 WO2008CN070390 20080229

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): CHEN HONGYU ; LI JING ; DOW GLOBAL TECHNOLOGIES INC ; LAI SHIH YAW ; MAEHARA YUTAKA ; LI JEFFREY JING ; DOW GLOBAL TECHNOLOGIES LLC ; YUN XIAOBING ; YUN XIAOBING B

Assignee(s): DOW CHEMICAL CHINA INVESTMENT CO LTD ; DOW CHEMICAL CO ; DOW CHEMICAL JAPAN LTD ; DCOMCO INC ; DOW CHEMICAL (CHINA) CO LTD ; DOW CHEMICAL (CHINA) INVESTMENT CO LTD ; DOW CHEMICAL CHINA CO LTD

Inventor(s): (std): CHEN HONG YU ; LI JEFFREY JING ; YUN XIAOBING B ; YUTAKA MAEHARA ; XIAOBING YUN ; SHIH YAW LAI ; JING LI ; HONGYU CHEN ; YUN XIAOBING ; MAEHARA YUTAKA ; LI JING ; LAI SHIH YAW ; CHEN HONGYU

Agent(s): MARSMAN HERMANUS ANTONIUS M; VO; WHYTE HIRSCHBOECK DUDEK SC DOW INTELLECTUAL PROPERTY DEPARTMENT; JEEKAI AND PARTNERS

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

Title: BALLISTIC RESISTANT ARTICLES COMPRISING ELONGATE BODIES

Abstract: A ballistic-resistant moulded article comprising a compressed stack of sheets comprising reinforcing elongate bodies and an organic matrix material, the direction of the elongate bodies within the compressed stack being not unidirectionally, wherein the elongate bodies are tapes with a width of at least 2 mm and a thickness to width ratio of at least 10:1 with the stack comprising 0.2-8 weight percent of an organic matrix material.

Classifications:

International (IPC 8-9): B32B27/06 B32B27/32 B32B3/06 B32B5/12 F41H F41H5/02 F41H5/04 (Advanced/Invention); B32B27/06 F41H5/04 (Advanced/Non-invention); F41H5/00 (Core/Invention); F41H (Subclass/Invention)

CPC: F41H5/0485 F41H5/02 B32B27/06 B32B3/06

European: F41H5/04F4

US: 156/60 156/60S 428/105 428/105P 428/107 428/114 428/114S 428/156 428/213 428/364

Family:

Publication number	Publication date	Application number	Application date
AU2009221103 AA	20090911	AU20090221103	20090305
AU2009221103 BB	20131219	AU20090221103	20090305
BRPI0908044 A2	20150811	BR2009PI08044	20090305
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EP2252853 B1	20160420	EP20090718059	20090305
ES2579488 T3	20160811	ES20090718059T	20090305
IL207766 A0	20101230	IL20090207766	20090305
JP2011515643 T2	20110519	JP20100549150T	20090305
JP5511082 B2	20140604	JP20100549150T	20090305
KR101587789 B1	20160122	KR20107022259	20090305
KR20100131473 A	20101215	KR20107022259	20090305
KR20160001721 A	20160106	KR20157034338	20090305
MX2010009801 A1	20100928	MX20100009801	20090305
RU2010140799 A	20120420	RU20100140799	20090305
RU2498194 C2	20131110	RU20100140799	20090305
US2011020593 AA	20110127	US20090920608	20090305
US8545961 BB	20131001	US20090920608	20090305
WO09109632 A1	20090911	WO2009EP52622	20090305
ZA201006162 A	20110525	ZA20100006162	20100827

Priority:

EP20080004144 20080306
WO2009EP52622 20090305

EP20090150308 20090109

EP20090718059 20090305

Probable Assignee: TEIJIN LTD

Assignee(s): (std): BOVENSCHEN SOON JOO ; MUGGE EDO ; NIENHUIS ERIK OSCAR ; TEIJIN ARAMID B V ; WINKLER ERNST MICHAEL ; TEIJIN ARAMID BV ; TEJZDZHN ARAMID BV ; TEIJIN LTD

Inventor(s): (std): BOVENSCHEN SOON JOO ; EDO MUGGE ; JOO BOVENSCHEN SOON ; MICHAEL WINKLER ERNST ; MUGGE EDO ; NIENHUIS ERIK OSCAR ; OSCAR NIENHUIS ERIK ; WINKLER ERNST MICHAEL ; VINKLER EHRNST MIKHAEL ; NINKHEJS EHRIC OSKAR ; MUGGE EHDO ; BOVENSEN SON JO

Inventor(s): SOON JOO BOVENSCHEN ; ERIK OSCAR NIENHUIS ; ERNST MICHAEL WINKLER

Agent(s): SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; SCHROEDER OBERLEIN PATENTANWALTS UG HAFTUNGSBESCHRAENKT; HEIMANN ANETTE; DE ELZABURU ALBERTO; OHSHIMA MASATAKA; OLIFF AND BERRIDGE PLC; OLIFF BERRIDGE PLC

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

Title: PACKAGING LAMINATE, METHOD FOR MANUFACTURING OF THE PACKAGING LAMINATE AND PACKAGING CONTAINER PRODUCED THEREFROM

Abstract: A non-foil packaging laminate for liquid food packaging comprises a core layer of paper or paperboard, outermost liquid tight, heat sealable layers of polyolefin and, applied onto the inner side of the layer of paper or paperboard, and an oxygen gas barrier layer formed by liquid film coating of a liquid gas barrier composition and subsequent drying. The liquid composition contains a polymer binder dispersed or dissolved in a liquid medium. The disclosure also involves a method for manufacturing of the packaging laminate and a packaging container made from the packaging laminate.

Classifications:

International (IPC 8-9): B05D1/00 B05D3/04 B29C47/00 B29C55/04 B29C55/06 B32B1/02 B32B15/04 B32B15/085 B32B27/00 B32B27/10 B32B27/30 B32B27/32 B32B37/16 B32B5/00 B32B7/02 B65D5/00 B65D5/40 B65D5/56 B65D65/40 B65D65/42 B65D81/24 B65D85/72 C08J5/18 C08J7/04 C23C14/00 C23C14/20 C23C14/58 C23C16/00 C23C16/06 C23C16/54 D21H19/12 D21H19/14 D21H19/20 D21H19/40 D21H19/44 D21H19/60 D21H19/82 D21H27/30 (Advanced/Invention); B32B15/04 B32B27/00 B32B27/10 B32B27/30 B65D65/40 B65D85/72 C23C16/06 C23C16/54 (Advanced/Non-invention); B32B27/00 B32B27/10 B32B27/30 B32B27/32 B65D5/00 B65D65/38 B65D65/40 B65D81/24 C23C14/00 C23C14/20 C23C16/00 D21H19/00 (Core/Invention); B32B27/00 B65D65/40 B65D65/42 B65D85/72 C23C16/06 C23C16/54 (Core/Non-invention)

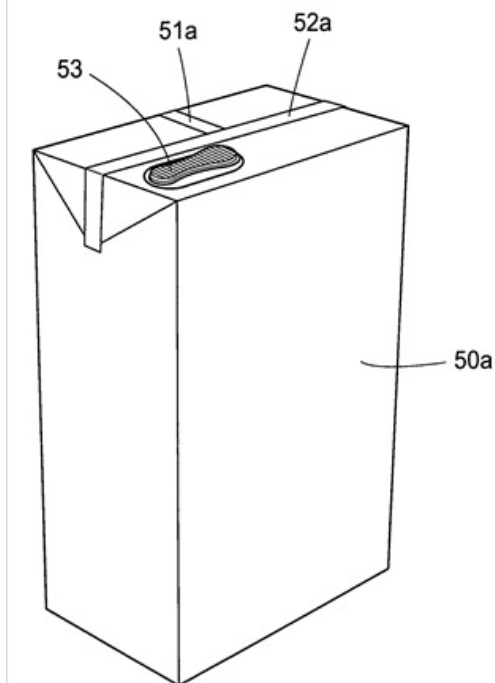
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European: B32B27/00 B32B27/10 B32B27/30 B65D65/40 B65D81/24 C23C14/20 C23C14/58L C23C16/06 D21H19/20 D21H19/40 D21H19/60 D21H19/82B L32B37/24B L65D85/72

US: 156/182 156/182S 229/5.84 229/5.840P 264/210.1 264/210.100S 427/248.1 427/248.100S 427/250 427/250S 427/569 427/569S 428/220 428/220S 428/323 428/323S 428/331 428/331S 428/336 428/336S 428/337 428/337S 428/341 428/341S 428/349 428/349S 428/36.92 428/36.920P

PatBase - US2011132975_AH



Family:

Publication number	Publication date	Application number	Application date
AR070878 AA	20100512	AR2009P100893	20090312
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AU2009224965 AA	20090917	AU20090224965	20090312
AU2009224965 BB	20130919	AU20090224965	20090312
BRPI0909177 A2	20150825	BR2009PI09177	20090312
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CN102015291 A	20110413	CN200980116847	20090312
DE602009012815 D1	20130314	DE200960012815T	20090312
EG25916 A	20121014	EG20100091538	20100914
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IN05753CN2010 A	20110415	IN2010CN05753	20100914
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SE200800605 A	20090915	SE20080000605	20080314
SE200800605 L	20090915	SE20080000605	20080314
SE532388 C2	20100112	SE20080000605	20080314
TH112162 A	20120215	TH20091001084	20090312
TW200951036 A	20091216	TW20090108089	20090312
UA102092 C2	20130610	UA20100102148	20090312
UA102092 C2	20130610	UA20100012148	20090312
US2011132975 AA	20110609	US20090922598	20090312
US2011143070 AA	20110616	US20090922641	20090312
WO09112255 A1	20090917	WO2009EP01766	20090312
WO09112256 A1	20090917	WO2009EP01767	20090312

Priority:

SE20080000605 20080314 EP20090720201 20090312 WO2009EP01766 20090312
WO2009EP01767 20090312

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE SA

Assignee(s): (std): BONNEBAULT ALAIN ; CAMACHO WALKER ; CHIQUET ANDRE ; FAYET PIERRE ; JACCOUD BERTRAND ; TOFT NILS ; ROCHAT GIL ; TETRA LAVAL HOLDINGS AND FINANCE ; TETRA LAVAL HOLDINGS AND FINANCE SA ; TETRA LAVAL HOLDINGS AND FINANCE S A ; TETRA PAK LAVAL HOLDINGS AND FINANCES SA

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

Inventor(s): (std): ALAIN BONNEBAULT ; ANDRE CHIQUET ; BERTRAND JACCOUD ; BONNEBO ALEN ; FAJET P ER ; GIL ROCHAT ; KAMAKO VAL KER ; NILS TOFT ; PIERRE FAYET ; ROSHA ZHIL ; SHIKE ANDREH ; TOFT NIL S ; WALKER CAMACHO ; ZHAKKUD BERTRAN ; TOFT NILS ; ROCHAT GIL ; JACCOUD BERTRAND ; FAYET PIERRE ; CHIQUET ANDRE ; CAMACHO WALKER ; BONNEBAULT ALAIN

Inventor(s): TOFT, Nils ; ROCHAT, Gil ; JACCOUD, Bertrand ; FAYET, Pierre ; CAMACHO, Walker

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; VILLASECA; PERSSON EVA KERSTIN CH; LEHMANN MARIA ISABEL; ASAMURA PATENT OFFICE PC; ASAMURA KIYOSHI; ASAMURA HAJIME; 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 CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: BALLISTIC RESISTANT ARTICLES COMPRISING ELONGATE BODIES

Abstract: A ballistic-resistant moulded article having a compressed stack of sheets including reinforcing elongate bodies, where at least some of the elongate bodies are polyethylene elongate bodies that have a weight average molecular weight of at least 100,000 gram/mole and a Mw/Mn ratio of at most 6. Methods for manufacturing ballistic-resistant moulded articles are also provided.

Classifications:

International (IPC 8-9): B29C70/10 B32B27/06 B32B27/32 B32B37/00 B32B37/02 B32B37/10 B32B5/02 B32B5/08

D02G3/00 F41H F41H5/00 F41H5/02 F41H5/04 (Advanced/Invention);

B32B27/06 F41H5/04 (Advanced/Non-invention);

F41H5/00 F41H5/04 (Core/Invention);

F41H5/02 (Core/Non-invention);

F41H (Subclass/Invention)

International (IPC 1-7): F41H 5/04 F41H5/04

CPC: Y10T156/10 Y10T428/24942 Y10T428/24994 Y10T428/24995 Y10T428/2913 Y10T428/2967 Y10T428/31938

Y10T428/31971 F41H5/0485 Y10T428/249924

European: F41H5/04F4

US: 156/60 156/60S 428/212 428/292.1 428/297.4 428/300.7 428/364 428/394 428/523 428/523S 428/532 428/532S

89/36.02 89/36.020P 89/904 89/904S

Family:

Publication number	Publication date	Application number	Application date
AR072822 AA	20100922	AR2009P102744	20090717
AU2009272751 AA	20100121	AU20090272751	20090714
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CN102159916 B	20140813	CN200980136166	20090714
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EP2313736 A1	20110427	EP20090797497	20090714
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JP5517363 B2	20140611	JP20110517906T	20090714
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US2011162517 AA	20110707	US20090054618	20090714
US2012216669 AA	20120830	US20120467729	20120509
US8197935 BB	20120612	US20090054618	20090714
US8535800 BB	20130917	US20120467729	20120509
UY31994 A1	20100226	UY20090031994	20090716
WO10007062 A1	20100121	WO2009EP58992	20090714
ZA201100399 A	20110928	ZA20110000399	20110114

Priority:

EP20080160594 20080717

EP20090150306 20090109

WO2009EP58992 20090714

EP20090797497 20090714

US20110054618 20110118

US20120467729 20120509

Probable Assignee: TEIJIN LTD

Assignee(s): (std): BOS JOHANNES ; BOVENSCHEN SOON JOO ; EEM JORIS VAN D ; JOURNEE MARINUS JOHANNES GERAR ; JOURNEE MARINUS JOHANNES GERARDUS ; NIENHUIS ERIK OSCAR ; TEIJIN ARAMID B V ; TEIJIN ARAMID BV ; TEJDZHN ARAMID BV ; TEIJIN LTD ; VAN DER EEM JORIS

Assignee(s): TEIJIN ARAMID B V NL

Inventor(s): (std): BOS JOHANNES ; BOVENSCHEN SOON JOO ; DER EEM JORIS VAN ; EEM VAN D JORIS ; GERARDUS JOURNEE MARINUS JOHANNES ; JORIS VAN D EEM ; JOURNEE MARINUS JOHANNES GERARDUS ; NIENHUIS ERIK OSCAR ; VAN DER EEM JORIS ; SOON JOO BOVENSCHEN ; OSCAR NIENHUIS ERIK ; NINKHEJS ERIK OSCAR ; JORIS DER EEM VAN ; JOO BOVENSCHEN SOON ; JOHANNES BOS ; JAURNE MARINUS JOHANNES GERARDUS ; ERIK OSCAR NIENHUIS ; EHM JORIS VAN D ; EEM VAN DER JORIS ; EEM JORIS VAN DER ; EEM JORIS VAN D ; BOVENSEN SON JO ; MARINUS JOHANNES GERARDUS JOURNEE ; BOS JOHANNES

Inventor(s): JORIS VAN DER EEM

Agent(s): SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; DARIO CARDENAS NAVAS; HEIMANN ANETTE; MARKS AND CLERK; OHSHIMA MASATAKA; OLIFF AND BERRIDGE PLC

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

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

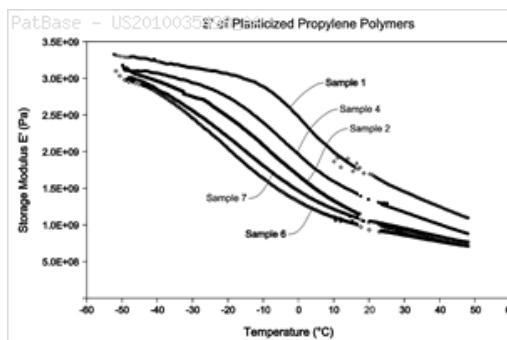
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CPC: C08L23/10 C08K5/0016 C08K5/01 C08L23/0815 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06 Y10T442/30 Y10T442/60

European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00

US: 442/181 442/181P 442/327 442/327S 524/490 524/491 524/570 524/570S 524/579 524/848



Family:

Publication number	Publication date	Application number	Application date
US2010035498 AA	20100211	US20090581334	20091019
US8217112 BB	20120710	US20090581334	20091019

Priority:

US20020402665P 20020812 US20030640435 20030812 US20060585761 20061024
US20090581334 20091019

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; LUNDMARK BRUCE R ; LOHSE DAVID J ; EXXONMOBIL CHEM PATENTS INC ; SCHREGENBERGER SANDRA DENISE

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): CHAPMAN BRYAN R ; LOHSE DAVID J ; LUNDMARK BRUCE R ; SCHREGENBERGER SANDRA DENISE

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; CATHERINE L; KEVIN M

Title: APPLYING BIAXIALLY ORIENTED POLYESTER ONTO A METAL SUBSTRATE

Abstract: The invention is a laminating process which is directed toward economical production methods for scalable amounts of production which develop properties suitable for a broad based product line. In particular, the product is capable of important key components of commercial properties such as adhesion, scratch resistance, chemical inertness, and bending without failure.

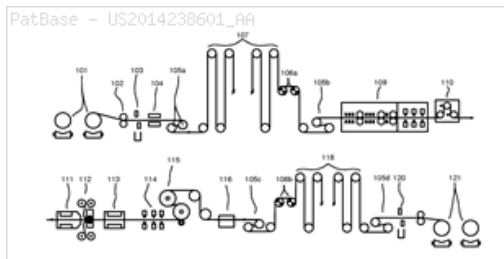
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CPC: B32B37/085 B32B38/0036 B32B2038/166 B32B2307/542 B32B27/32 B32B41/00 Y10T156/1067 Y10T156/108 B32B37/02 B32B37/14 B32B7/12 B32B15/08 B32B38/0004 B32B37/206 B32B15/09 B32B15/18 B32B27/08 B32B27/36 B32B37/003 B32B37/04 B32B37/06 B32B37/08 B32B38/105 B32B38/162 B32B38/185 B32B39/00 B32B2305/30 B32B2307/406 B32B2307/518 B32B2307/546 B32B2307/584 B32B2307/714 B32B2309/02 B32B2309/10 B32B2309/105 B32B2309/14 B32B2309/72 B32B2310/0445 B32B2310/0812 B32B2310/0825 B32B2311/00 B32B2367/00

European: B32B15/08 B32B15/18 B32B27/08 B32B27/36 B32B37/00A6 B32B37/06 B32B37/20A4 B32B38/10A B32B38/18B2B2 B32B41/00 B32B7/12 L32B305/30 L32B307/406 L32B307/546 L32B307/584 L32B307/714 L32B309/02 L32B309/10 L32B309/10C L32B309/14 L32B309/72 L32B310/04C L32B310/08B2 L32B310/08B3 L32B311/00 L32B367/00 L32B37/02 L32B37/04 L32B37/08 L32B38/10A L32B38/16A L32B39/00

US: 1/1 156/259 156/267 156/281 156/282 156/322 156/324 156/64 156/82



Family:

Publication number	Publication date	Application number	Application date
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US9358766 BB	20160607	US20140271870	20140507

Priority:

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US20140271870	20140507	US20140298508	20140606		

Probable Assignee: POLYTECH AMERICA LLC

Assignee(s): (std): DESIGN ANALYSIS INC ; LOEN MARK V ; MORITZ JAN K ; VELLIKY JAMES E ; TORAY PLASTICS AMERICA INC

Assignee(s): SUMITOMO OF AMERICA CORP ; POLYTECH AMERICA LLC ; POLYTECH INT LLC

Inventor(s): (std): LOEN MARK V ; VELLIKY JAMES E ; MORITZ JAN K

Title: PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

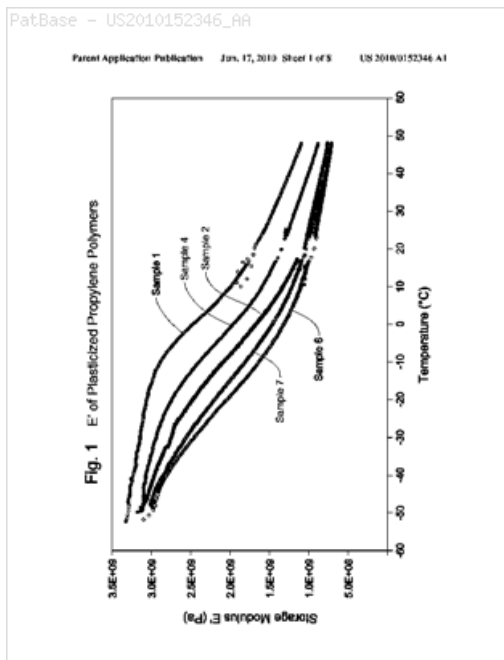
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International (IPC 8-9): C08J3/12 C08J3/18 C08J3/20 C08K5/00 C08K5/01 C08K5/06 C08K5/098 C08K5/20 C08K5/52 C08L23/02 C08L23/08 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/20 C08L93/00 (Advanced/Invention); C08K5/00 C08L23/18 C08L23/22 C08L57/00 C08L91/00 (Advanced/Non-invention)

CPC: C08L23/10 C08K5/0016 C08K5/01 C08L23/0815 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06 Y10T442/30 Y10T442/60

European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00

US: 524/145 524/274 524/274S 524/286 524/286S 524/372 524/372S 524/394 524/394S 524/487 524/487S 524/490 524/491 524/570 524/570S 524/579 524/579S 524/582 524/583 524/583S 524/848

**Family:**

Publication number	Publication date	Application number	Application date
US2010152346 AA	20100617	US20100693287	20100125
US8211968 BB	20120703	US20100693287	20100125

Priority:

US20020402665P 20020812 US20030640435 20030812 US20060406926 20060419
US20100693287 20100125

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): WITTENBRINK ROBERT JAY ; OURIEVA GALINA ; LUNDMARK BRUCE R ; VARMA NAIR MANIKA ; LIN CHON YIE ; SCHREGENBERGER SANDRA DENISE ; LOHSE DAVID J ; LI WEN ; CHAPMAN BRYAN R ; CHENG CHIA YUNG ; COFFEY JAMES N ; EISELT PETRA ; EXXONMOBIL CHEM PATENTS INC ; YANG HENRY WU HSIANG ; ZUDOCK JEFFREY THEODORE ; YANG NORMAN

Assignee(s): EXXON MOBIL CORP ; EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CHAPMAN BRYAN R ; CHENG CHIA YUNG ; COFFEY JAMES N ; EISELT PETRA ; LI WEN ; LIN CHON YIE ; LOHSE DAVID J ; LUNDMARK BRUCE R ; OURIEVA GALINA ; SCHREGENBERGER SANDRA DENISE ; VARMA NAIR MANIKA ; WITTENBRINK ROBERT JAY ; YANG HENRY WU HSIANG ; YANG NORMAN ; ZUDOCK JEFFREY THEODORE

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; CATHERINE L; KEVIN M

Title: POLYMERIC PACKAGES

Abstract: This disclosure relates to a package and a method of making the package. The package comprises (a) a web material to form an enclosed package comprising a seal having two seal ends and a package side edge, and wherein the seal is a fin seal or an overlap seal; (b) a first tear initiation point located on the package side edge; and (c) a second tear initiation point, wherein the second tear initiation point is located on the seal.

Classifications:

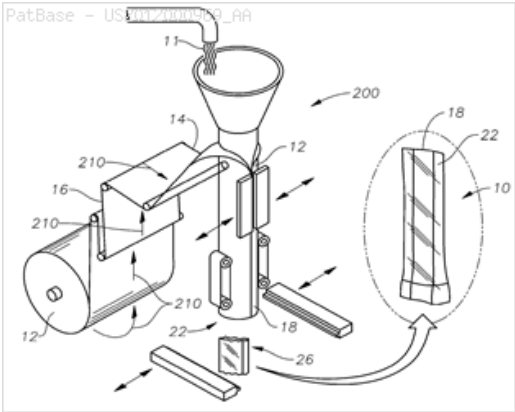
International (IPC 8-9): B65D65/30 B65D75/58

B65D75/62 (Advanced/Invention)

CPC: B65D75/5833

European: B65D75/58E1

US: 229/87.05 229/87.050P 53/412 53/412S



Family:

Publication number	Publication date	Application number	Application date
CA2753474 AA	20101007	CA20092753474	20090401
CN102369145 A	20120307	CN200980158403	20090401
EP2414256 A1	20120208	EP20090789560	20090401
US2012000969 AA	20120105	US20090148974	20090401
WO10114535 A1	20101007	WO2009US39158	20090401

Priority:

US20090148974 20090401 WO2009US39158 20090401

Probable Assignee: JINDAL FILMS AMERICAS LLC

Assignee(s): (std): ABERNATHY STANLEY ; EXXONMOBIL OIL CORP ; WILKINS SCOTT ; REHKUGLER RICHARD ALAN ; REHKUGLER RICHARD A ; WILKINS SCOTT P

Assignee(s): JPF USA LLC ; FILMS AMERICAS LLC ; JINDAL FILMS AMERICAS LLC

Inventor(s): (std): ABERNATHY STANLEY ; ALAN REHKUGLER RICHARD ; REHKUGLER RICHARD A ; REHKUGLER RICHARD ALAN ; SCOTT WILKINS ; STANLEY ABERNATHY ; WILKINS SCOTT ; WILKINS SCOTT P

Agent(s): BORDEN LADNER GERVAIS LLP; TROCH GENEVIEVE; FENG XIAOBING ET AL

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

Title: AROMA BARRIER FILMS AND STRUCTURES

Abstract: The invention concerns containers comprising a base; a coating on at least one surface of the base film comprising: (a) particles bearing a positive or negative charge; (b) film forming polymer; (c) a dispersion agent; and (d) cross-linking agent for the polymer; and a polymeric heat sealable film positioned on the coating.

Classifications:

International (IPC 8-9): B32B27/08 B65D65/40 (Advanced/Invention)

CPC: C09D7/61 C08K3/22 C08K3/346

European: C09D7/12D2 M08K3/22 M08K3/34B

Family:

Publication number	Publication date	Application number	Application date
WO10117900 A1	20101014	WO2010US29781	20100402

Priority:

US20090167554P 20090408

Probable Assignee: NANOPACK INC

Assignee(s): (std): KRAVITZ HOWARD S ; LEVITT FRED ; NANOPACK INC

Inventor(s): (std): KRAVITZ HOWARD S ; LEVITT FRED

Agent(s): CALDWELL JOHN W ET AL

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

Title: PROCESS FOR MAKING DENDRITIC HYDROCARBON POLYMERS

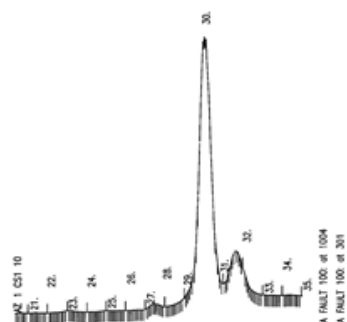
Abstract: A process for making a substantially saturated dendritic hydrocarbon polymer. The process has the following steps: (a) polymerizing an amount of one or more alkadiene monomers and/or one or more alkenylaromatic polymers under anionic conditions in the presence of a di- or tri-functional organic lithium initiator to produce a polyalkadiene defining a multiplicity of lithiated chain ends; (b) reacting the polyalkadiene with an amount of a tri- or di-functional silane coupling agent to form a dendritic polyalkadiene; and (c) hydrogenating the dendritic polyalkadiene to form a substantially saturated dendritic hydrocarbon polymer. Also a process for making a dendritic hydrocarbon polymer, comprising: (a) polymerizing an amount of one or more alkadiene monomers and/or one or more alkenylaromatic polymers under anionic conditions in the presence of a di- or tri-functional organic lithium initiator to produce a hydrocarbon polymer defining a multiplicity of lithiated chain ends; and (b) reacting the hydrocarbon polymer with an amount of a tri- or di-functional silane coupling agent to form a dendritic hydrocarbon polymer.

Classifications:

International (IPC 8-9): B29D7/01 C08C19/02 C08C19/44 C08F12/00 C08F210/02 C08F210/14 C08F210/18 C08F36/00 C08F36/04 C08F4/80 C08F8/00 C08F8/04 C08G61/12 C08G81/02 C08G83/00 C08J3/24 C08J5/18 C08K5/01 C08L23/04 C08L23/06 C08L23/08 C08L23/24 C08L65/00 (Advanced/Invention); C08F4/80 C08G61/08 C08L25/04 (Advanced/Non-invention)
IPC: B29D7/01 C08K3/18 C08L101/005 B29K2023/04 C08J2323/04 C08L23/24 C08K5/005 C08G61/12 C08G2261/3322 C08G2261/334 C08G2261/418 C08F236/20 C08J2323/08 C08F297/023 C08G83/002 C08L23/06 C08C19/02 C08C19/44 C08F36/04 C08G81/022 C08G83/003 C08G83/006 C08J2323/06 C08J2400/202 C08L25/04 C08F4/488 C08L9/00 C08F210/02 C08F2500/09 C08F8/04 C08G83/004 C08L2205/025 C08L2207/07 C08F210/18 C08J5/18 C08L23/0815 C08L23/083 C08L2203/16 C08L2314/06
European: C08C19/02 C08C19/44 C08F36/04 C08G81/02D4 C08G83/00D1
US: 1/1 525/191 525/209 525/216 525/225 525/232 525/240 525/330.3 525/331.9 525/332.3 525/332.9 525/333.1 525/333.2 525/333.3 525/338 525/338P 525/342 525/342S 525/915 525/940 526/171 526/281 526/308 526/324 977/754

PatBase - US2011118420_AA

Patent Application Publication May 19, 2011 Sheet 1 of 21 US 2011/0118420 A1

**FIG. 1****Family:**

Publication number	Publication date	Application number	Application date
DE602012024680 D1	20161215	DE201260024680T	20120920
EP2758441 A2	20140730	EP20120834391	20120920
EP2758441 A4	20151104	EP20120834391	20120920
EP2758441 B1	20161026	EP20120834391	20120920
JP2014530272 A2	20141117	JP20140531940	20120920
JP2014530272 T2	20141117	JP20140531940T	20120920
JP5960831 B2	20160802	JP20140531940T	20120920
US2011118420 AA	20110519	US20100904428	20101014
US2013131297 AA	20130523	US20110302446	20111122
US2013211008 AA	20130815	US20120584137	20120813
US2013211009 AA	20130815	US20120584284	20120813
US8487059 BB	20130716	US20110302446	20111122
US8604136 BB	20131210	US20100904428	20101014
US8629217 BB	20140114	US20120584284	20120813
US9458310 BB	20161004	US20120584137	20120813
WO11047220 A1	20110421	WO2010US52775	20101015
WO13078351 A1	20130530	WO2012US66309	20121121
WO14028178 A1	20140220	WO2013US51457	20130722

Priority:

US20090279127P 20091016	US20100904428 20101014	US20110538703P 20110923
EP20110188165 20111108	US20110302446 20111122	US20120584284 20120813
US20120584137 20120813	EP20120834391 20120920	WO2012US56218 20120920
EP20120190599 20121030		

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHENG JIANYA ; CHENG JIANYA J ; EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL PATENTS INC ; HADJICHRISTIDIS NIKOS ; SCHUENZEL PAUL EDWARD ; LOHSE DAVID JOHN ; EXXONMOBIL RES AND ENG CO ; HO SUZZY CHEN HSI ; TSOU ANDY HAISHUNG ; YANG YONG ; SOULAGES JOHANNES M ; TSOU ANDY H ; SHIRODKAR PRADEEP P ; WRIGHT PAMELA J ; LUSTIGER ARNOLD ; HO SUZZY C H

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC BAYTOWN ; EXXONMOBIL RESEARCH AND ENGINEERING CO ; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY

Inventor(s): (std): CHENG JIANYA ; CHENG JIANYA J ; HADJICHRISTIDIS NIKOS ; HO SUZZY C H ; HO SUZZY CHEN HSI ; JIANG PEIJUN ; JOLIBOIS KEITH E ; LOHSE DAVID JOHN ; LUSTIGER ARNOLD ; NARVAEZ ANDREW G ; SCHUENZEL PAUL EDWARD ; SHIRODKAR PRADEEP P ; SOULAGES JOHANNES M ; SQUIRE KEVIN R ; THACKSTON RONALD R ; TSOU ANDY H ; TSOU ANDY HAISHUNG ; WRIGHT PAMELA J ; YANG YONG

Inventor(s): THACKSTON RONALD R DICKINSON ; SQUIRE KEVIN R KINGWOOD ; SOULAGES JOHANNES M MORRISTOWN ; SHIRODKAR PRADEEP P HOUSTON ; NARVAEZ ANDREW G LEAGUE CITY ; JOLIBOIS KEITH E FRIENDSWOOD ; JIANG PEIJUN LEAGUE CITY ; HO SUZZY CH ; CHENG JIANYA KINGWOOD

Agent(s): UEXKUELL AND STOLBERG PARTNERSCHAFT VON PATENT U RECHTSANWAELTEN MBB; MARESCHAL ANNE; YAMASAKI KAZUO; HAKODA ATSUSHI; ICHIKAWA SATSUKI; KUMAKURA YOSHIO; ASAI KENJI; ROBERT A; DARRYL M; CATHERINE L; PURWIN PAUL E ET AL; TYUS DARRYL M ET AL; FAULKNER KEVIN M 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: POLYPROPYLENE BASED FIBERS AND NONWOVENS

Abstract: The present invention relates to fibers and nonwovens made from plasticized polyolefin compositions comprising a polyolefin, a non-functionalized hydrocarbon plasticizer and a slip agent.

Classifications:

International (IPC 8-9): A41D13/12 A61B19/08 A61L15/22 B32B27/32 C08K5/20 D04H13/00 (Advanced/Invention)

CPC: C08K5/20 C08L23/10 D01F1/10 Y10T428/2913 Y10T428/2929 Y10T428/2931 Y10T442/60 Y10T442/637 D01F6/46 D04H1/4291

European: D01F1/10 D01F6/46 D04H1/42 M08K5/20 M08L23/10

US: 128/849 2/69 2/69S 428/364 428/373 428/374 442/327 442/327S 442/361 524/232 524/232S 604/372 604/372S

Family:

Publication number	Publication date	Application number	Application date
US2011253152 AA	20111020	US20110175201	20110701
US8663799 BB	20140304	US20110175201	20110701

Priority:

US20020402665P 20020812	US20030634351 20030804	US20030640435 20030812
US20040782306 20040219	US20040637429P 20041217	US20050655612P 20050222
US20050655310P 20050222	US20050119193 20050429	US20110175201 20110701

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN ROBERT ; CHENG CHIA YUNG ; EXXONMOBIL CHEM PATENTS INC ; LI WEN ; LIN CHON YIE ; LUNDMARK BRUCE ROBERT ; KELLY MICHAEL BRIAN ; FERRY WILLIAM MICHAEL

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): LUNDMARK BRUCE ROBERT ; LIN CHON YIE ; LI WEN ; KELLY MICHAEL BRIAN ; FERRY WILLIAM MICHAEL ; CHENG CHIA YUNG ; CHAPMAN BRYAN ROBERT

Agent(s): JAMIE L; KEVIN M

Title: FIBERS AND NONWOVENS FROM PLASTICIZED POLYOLEFIN COMPOSITIONS

Abstract: The present invention relates to fibers and nonwovens made from plasticized polyolefin compositions comprising a polyolefin and a non-functionalized hydrocarbon plasticizer.

Classifications:

International (IPC 8-9): C08F8/00 C08G18/65 C08K3/22 C08K5/01 C08L23/00 C08L23/08 C08L23/10 C08L23/12 C08L23/16 D01F9/00 D04H13/00 (Advanced/Invention); C08L23/12 C08L57/00 C08L91/00 (Advanced/Non-invention)

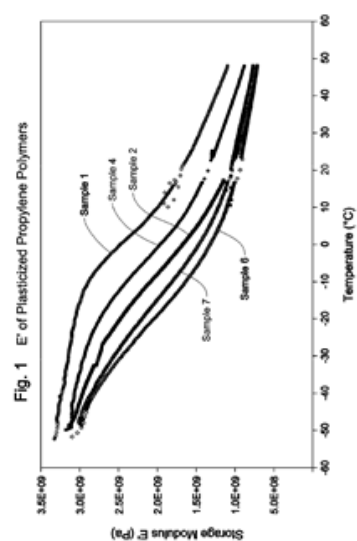
CPC: C08L23/0815 A61L2202/24 C08F110/06 C08F210/06 C08K5/0016 C08K5/01 C08L23/10 C08L23/12 C08L23/16 C08L23/18 C08L23/20 C08L23/22 C08L57/00 C08L91/00 C08L2205/03 C08L2314/06 Y10T442/60 D04H1/4291

European: C08K5/01 C08L23/08A1 C08L23/10 C08L23/16 C08L23/20 D04H1/42 K61L202/240 M08F110/06 M08F210/06 M08K5/00P1 M08L205/03 M08L23/08A1 M08L23/10 M08L23/12 M08L23/16 M08L23/18 M08L23/20 M08L23/22 M08L314/06 M08L57/00 M08L91/00

US: 442/327 442/327P 524/474 524/487 524/491 524/583 524/583S 525/191 525/240

PatBase - US2011269362_AA

Patent Application Publication Nov. 3, 2011 Sheet 1 of 8 US 2011/0269362 A1

**Family:**

Publication number	Publication date	Application number	Application date
US2011269362 AA	20111103	US20110150653	20110601
US8202942 BB	20120619	US20110150653	20110601

Priority:

US20020402665P 20020812 US20030634351 20030804 US20030640435 20030812
 US20040782306 20040219 US20070854943 20070913 US20110150653 20110601

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; EXXONMOBIL CHEM PATENTS INC ; KELLY MICHAEL B ; LI WEN ; LIN CHON YIE

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): CHAPMAN BRYAN R ; KELLY MICHAEL B ; LI WEN ; LIN CHON YIE

Title: BARRIER COATINGS FOR FILM AND STRUCTURES

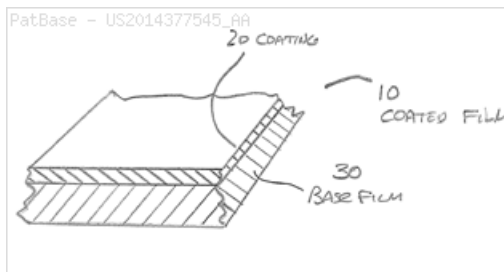
Abstract: The invention provides coated substrates comprising a substrate and a barrier coating on at least one surface of the substrate. The barrier coating comprises (i) vermiculite, (ii) polymer capable of forming a film, (iii) chemical stabilizing agent selected from materials that contain cationic functionality selected from lithium, alkyl C2-C6 ammonium, allyl ammonium, heterocyclic ammonium, morpholinium, ammonium and amino C3-C6 alkyl carboxylic acids; lithium cations in combination with anions selected from carboxylic, phosphoric, phosphonic, sulfonic and fatty acids, lithium chelating agents, and lithium salts, ammonia, C3-C6 amine, heterocyclic amines, lithium hydroxide, morpholine, and morpholine oleate; and (iv) cross-linking agent. The invention also provides articles coated with such coatings, methods and mixtures for making such coated substrates and articles.

Classifications:

International (IPC 8-9): B32B27/18 C08J5/12 C08J7/04 C08K3/22 C08K3/28 C08K3/34 C08K5/05 C08K5/098 C08K5/17 C08K5/357 C09D129/04 C09D201/00 C09D7/12 C09D7/61 C09D7/63 (Advanced/Invention)

CPC: C09D129/04 C08K5/05 C08K3/22 C08K5/098 C08K3/28 C08K5/357 C08K5/17 C08K3/34 C08K2003/2203 Y10T428/265 C08J2367/02 C08J2377/00 C08J7/045 C08J2429/04 C09D7/61 C09D7/63

US: 428/336 524/111 524/251 524/391 524/96

**Family:**

Publication number	Publication date	Application number	Application date
BR112014002447 A2	20170221	BR20141102447	20120801
CA2843762 AA	20140130	CA20122843762	20120801
CN103717650 A	20140409	CN201280038704	20120801
CN103717650 B	20170926	CN201280038704	20120801
EP2739674 A1	20140611	EP20120747957	20120801
IN00714DN2014 A	20150130	IN2014DN00714	20140130
JP2014524489 T2	20140922	JP20140524041T	20120801
JP6360647 B2	20180718	JP20140524041T	20120801
RU2014107901 A	20150910	RU20140107901	20120801
US2014377545 AA	20141225	US20120236170	20120801
WO13019833 A1	20130207	WO2012US49109	20120801

Priority:

US20110513853P 20110801 US20120236170 20120801 WO2012US49109 20120801

Probable Assignee: NANOPACK INC

Assignee(s): (std): HOSTETTER BARRY J ; KARVITZ HOWARD S ; KRAVITZ HOWARD S ; NANOPACK INC

Inventor(s): (std): BARRY J HOSTETTER ; HOSTETTER BARRY J ; HOWARD S KRAVITZ ; KARVITZ HOWARD S ; KRAVITZ HOWARD S

Agent(s): SMART AND BIGGAR; HALLYBONE HUW GEORGE; CALDWELL JOHN 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 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: ADHESIVE BAND SYSTEM FOR FORMING A TEAR-OFF STRIP

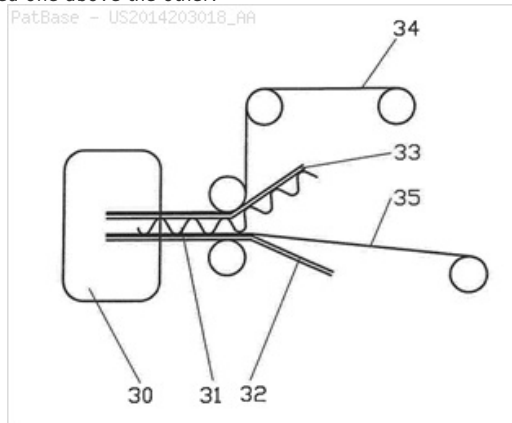
Abstract: An adhesive tape system opens cardboard packaging and consists of (i) an adhesive tape A furnished on at least one side with an adhesive coating and having a carrier, the carrier having a film and having filaments extending in the longitudinal direction of the carrier, and (ii) an adhesive tape B furnished on at least one side with an adhesive coating and having a film carrier, wherein the adhesive tapes A and B are disposed one above the other.

Classifications:

International (IPC 8-9): B28B23/00 B29C65/50 B31B1/90 B31D1/00 B32B27/12 B32B27/32 B32B27/36 B32B5/26 B32B7/12 B65B61/18 B65D5/54 B65D75/66 B65D77/32 C09J7/02 C09J7/20 C09J7/29 (Advanced/Invention)

CPC: B65D5/54 C09J2201/20 C09J2400/263 C09J2423/006 C09J2467/006 B31D1/0062 B32B5/26 B32B7/12 B32B27/12 B32B27/32 B32B27/36 B32B2270/00 B32B2405/00 B65D77/32 B29C65/5007 Y10T156/10 Y10T428/24132 Y10T428/2848 Y10T442/10 Y10T442/153 Y10T428/249942 C09J7/29

US: 156/60 220/359.3 428/114 428/298.1 428/354 442/1 442/32



Family:

Publication number	Publication date	Application number	Application date
CA2848555 AA	20140313	CA20122848555	20120831
CN103930504 A	20140716	CN201280056499	20120831
DE102011089331 A1	20130321	DE201110089331	20111221
DE502012012713 D1	20180607	DE201250012713T	20120831
EP2756045 A2	20140723	EP20120756163	20120831
EP2756045 B1	20180516	EP20120756163	20120831
JP2014532090 T2	20141204	JP20140530147T	20120831
US2014203018 AA	20140724	US20120342162	20120831
WO13037648 A2	20130321	WO2012EP66946	20120831
WO13037648 A3	20130620	WO2012EP66946	20120831

Priority:

DE201110082882 20110916 DE201110089331 20111221 DE201110089331 20111231
WO2012EP66946 20120831 EP20120756163 20120831

Probable Assignee: TESA SE

Assignee(s): (std): KERE PATRICK ; TESA SE

Inventor(s): (std): KERE PATRICK

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; TESA SE

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

Title: MODIFIED POLYETHYLENE COMPOSITIONS

Abstract: The present invention relates to a branched modifier and a composition comprising more than 25 wt percent (based on the weight of the composition) of one or more linear ethylene polymers having a g'vis of 0.97 or more and an Mw of 20,000 g/mol or more and at least 0.1 wt percent of a branched modifier where the modifier has a g'vis of less than 0.97, wherein the ethylene polymer has a g'vis of at least 0.01 units higher than the g'vis of the branched modifier.

Classifications:

International (IPC 8-9): B32B5/00 C08F10/02 C08F210/00 C08F210/16 C08F210/18 C08F236/06 C08F236/20 C08F8/00 C08J5/18 C08J9/00 C08J9/04 C08J9/06 C08L15/00 C08L23/04 C08L23/06 C08L23/08 C08L23/18 C08L23/20 C08L23/26 C08L9/00 (Advanced/Invention); C08F210/02 C08F210/14 C08F210/16 C08F210/18 (Advanced/Non-invention)

CPC: B32B5/00 C08F8/00 C08F210/00 C08F236/06 C08L2207/07 C08J9/06 C08J2447/00 C08L2203/14 C08L2205/025 E02D31/00 B09B1/004 Y10T428/139 C08J9/0061 C08J9/08 C08J2203/02 C08J2323/16 C08J2323/06 C08F4/65908 C08L23/08 Y02W30/32 C08L23/06 C08F210/14 C08F210/16 C08J2323/08 C08F236/20 C08F2500/09 C08F2500/12 C08F2500/17 C08F2500/19 C08J2423/08 C08L2205/02 C08L9/00 C08F210/02 C08F210/18 C08J5/18 C08L23/0815 C08L23/083 C08L2203/16 C08L2314/06 C08G83/006 C08J2400/202 C08L23/04 C08L23/26

US: 1/1 428/220 428/36.9 521/140 525/232 526/336 526/339

PatBase - US2013090433_AA

Patent Application Publication Apr. 11, 2013 Sheet 1 of 4 US 2013/090433 A1

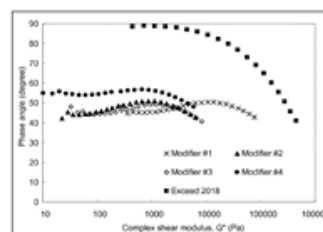


Figure 1

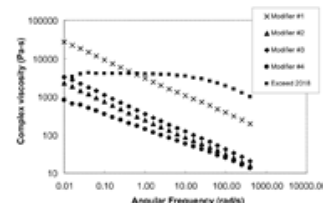


Figure 2

Family:

Publication number	Publication date	Application number	Application date
CN103946246 A	20140723	CN201280057079	20120920
CN103946246 B	20180123	CN201280057079	20120920
US2013090433 AA	20130411	US20120623242	20120920
US2013209774 AA	20130815	US20130851752	20130327
US2013216812 AA	20130822	US20130800098	20130313
US2013224463 AA	20130829	US20130851769	20130327
US2015125645 AA	20150507	US20150596468	20150114
US2015126634 AA	20150507	US20150596516	20150114
US2016272798 AA	20160922	US20160080000	20160324
US9321911 BB	20160426	US20130851752	20130327
US9340664 BB	20160517	US20130851769	20130327
US9580533 BB	20170228	US20120623242	20120920
WO13043796 A2	20130328	WO2012US56218	20120920
WO13043796 A3	20130704	WO2012US56218	20120920
WO14046777 A1	20140327	WO2013US51453	20130722
WO15116381 A1	20150806	WO2015US11315	20150114
WO15116382 A1	20150806	WO2015US11324	20150114

Priority:

US20110538703P	20110923	EP20110188165	20111108	US20120623242	20120920
WO2012US56218	20120920	US20130800098	20130313	US20130851752	20130327
US20130851769	20130327	US20140933453P	20140130	US20140933459P	20140130
EP20140164086	20140409	EP20140164090	20140409	US20150596468	20150114
US20150596516	20150114	US20160080000	20160324		

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL PATENTS INC ; NARVAEZ ANDREW G ; SQUIRE KEVIN R ; SOULAGES JOHANNES M ; SHIRODKAR PRADEEP P ; THACKSTON RONALD R ; JOLIBOIS KEITH E ; JIANG PEIJUN ; CHENG JIANYA ; EXXON MOBIL CHEM PATENTS INC

Assignee(s): EXXON MOBIL CHEMICAL PATENTS INC ; EXXONMOBILE CHEMICAL PATENTS INC

Inventor(s): (std): NARVAEZ JR ANDREW G ; PEIJUN JIANG ; TAKACS ANDREW ; TOMEI JOSEPH M ; THACKSTON RONALD R ; SQUIRE KEVIN R ; SOULAGES JOHANNES M ; SHIRODKAR PRADEEP P ; NARVAEZ ANDREW G ; LEYVA ARTURO ; JOLIBOIS KEITH E ; JIANG PEIJUN ; CHENG JIANYA ; BEST STEVEN A

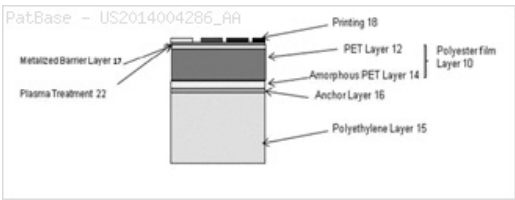
Agent(s): CATHERINE L ; ABDON ROBERT L ET AL ; FAULKNER KEVIN M ET AL

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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: LIGHTER THAN AIR BALLOONS FROM LAMINATES COMPRISING BIO-BASED POLYESTER FILMS AND BIO-BASED POLYETHYLENE FILMS

Abstract: A balloon made from a laminate film including at least one bio-based polyester layer of at least about 19.0 pMC of radiocarbon (14C) content is disclosed. The laminate film could further have additional layers such as a second bio-based polyester resin-containing layer of at least about 21.5 pMC of radiocarbon (14C) content, a linear low density polyethylene bio-based resin-containing layer of at least about 94 pMC of radiocarbon (14C) content, a metal layer, or combinations thereof.

Classifications:
International (IPC 8-9): A63H27/10 B05D1/36 B05D5/00 B32B27/08 B32B27/18 B32B27/36 (Advanced/Invention)
CPC: A63H27/10 B32B27/08 B32B27/36 A63H2027/1025 Y10T428/1352 Y10T428/1379 B32B27/32 B32B2307/31 B32B2307/518 B32B2307/7242 B32B2307/7244 B32B2307/75
US: 427/258 428/35.7 428/36.6



Family:

Publication number	Publication date	Application number	Application date
US2014004286 AA	20140102	US20120535153	20120627

Priority:
US20120535153 20120627

Probable Assignee: TORAY PLASTICS AMERICA INC
Assignee(s): (std): CHANG KEUNSUK P ; SAKELLARIDES STEFANOS L ; TORAY PLASTICS AMERICA INC
Inventor(s): (std): CHANG KEUNSUK P ; SAKELLARIDES STEFANOS L

Title: HEAT-ACTIVATABLE SILOXANE-BASED ADHESIVES

Abstract: Heat-activatable siloxane-based adhesive articles include a substrate and a heat-activatable adhesive layer that includes a hot melt processable siloxane-based elastomeric polymer. The siloxane-based elastomeric polymer is a urea-containing segmented copolymer or an oxamide-containing segmented copolymer. The adhesive layers are substantially free of tackifying resins and are non-tacky and non-adhesive until heated to a temperature of at least 50 C. The adhesive layers may be optically clear and may have a microstructured surface.

Classifications:

International (IPC 8-9): B32B37/12 C08G77/455 C09J183/04 C09J183/08 C09J183/10 C09J5/06 C09J7/00 C09J7/02 (Advanced/Invention)

CPC: C08G77/455 C09J5/06 B32B37/1292 C09J183/08 C09J2201/122 C09J2201/61 Y10T428/24843 Y10T428/2826 C09J7/10 C09J7/35 C09J183/10 C09J2483/00 C09J7/00 B32B37/1207

US: 156/329 427/208.2 428/200 428/349

Family:

Publication number	Publication date	Application number	Application date
■ CN104411791 A	20150311	CN201380035364	20130626
■ CN104411791 B	20170609	CN201380035364	20130626
■ EP2870213 A1	20150513	EP20130813990	20130626
■ EP2870213 A4	20160420	EP20130813990	20130626
■ KR20150032568 A	20150326	KR20157002376	20130626
■ US2015152294 AA	20150604	US20130572993	20130626
■ WO14008064 A1	20140109	WO2013US47908	20130626

Priority:

US20120667651P 20120703 US20130572993 20130626 WO2013US47908 20130626

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; GUNES IBRAHIM S ; SHERMAN AUDREY A ; YALCIN BARIS

Inventor(s): (std): YALCIN BARIS ; SHERMAN AUDREY A ; GUNES IBRAHIM S

Agent(s): VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; OLOFSON JEFFREY M 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: HDPE MODIFIED POLYETHYLENE BLOWN FILM COMPOSITIONS HAVING EXCELLENT BUBBLE STABILITY

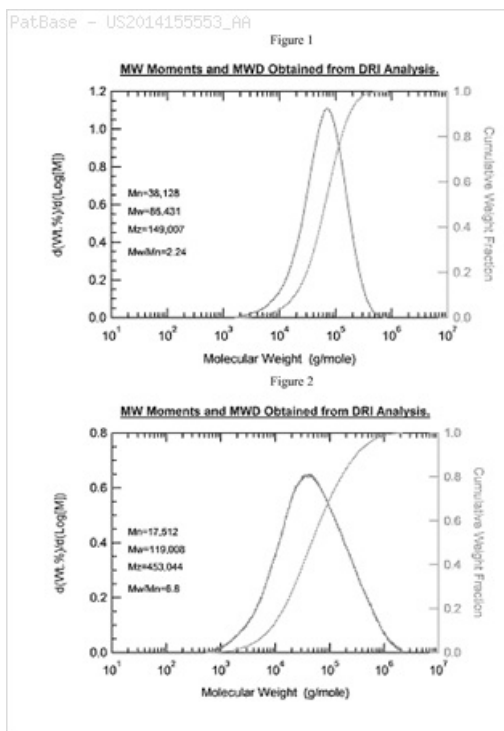
Abstract: The present invention relates to polyethylene compositions comprising one or more ethylene polymers and one or more HDPE modifiers, in particular, this invention further relates to polyethylene blends comprising one or more ethylene polymers and one or more HDPE modifiers, wherein the modifier has: 1) a density of greater than 0.94 g/cc; 2) a Mw/Mn greater than 5; 3) a melt index (ASTM 1238, 190 degrees centigrade, 2.16 kg) of less than 0.7 dg/min; and 4) a g'vis of 0.96 or less.

Classifications:

International (IPC 8-9): C08F10/02 C08J5/18 C08L23/04 C08L23/08 (Advanced/Invention)

CPC: C08L2201/10 C08L2203/16 C08L2205/025 C08L2207/062 C08L23/0815 C08J2323/08 C08J5/18 C08J2423/06 C08L23/06

US: 525/240



Family:

Publication number	Publication date	Application number	Application date
CN104812828 A	20150729	CN201380060219	20131121
CN104812828 B	20161012	CN201380060219	20131121
EP2928958 A1	20151014	EP20130860667	20131121
EP2928958 A4	20160413	EP20130860667	20131121
US201415553 AA	20140605	US20130086450	20131121
WO14088827 A1	20140612	WO2013US71248	20131121

Priority:

US20120733578P 20121205 EP20130160930 20130325 EP20130860667 20131121
US20130086450 20131121 WO2013US71248 20131121

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL CHEM PATENTS INC

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC ; EXXON MOBIL CORP

Inventor(s): (std): CHENG JIANYA ; KULKARNI RAHUL R ; SHIRODKAR PRADEEP P

Agent(s): EXXONMOBIL CHEMICAL EUROPE INC; FAULKNER KEVIN M 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