

Search history

Search 1: FT=(method and vulcaniz* and elastomeric and thermoplastic) (Results 8257)

Search 2: 1 and (organic peroxide) (Results 250)

Search 3: 2 and (maleic anhydride) (Results 16)

1) Family number: 30185048 (GB1575113A)

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Title: THERMOSETTING COMPOSITIONS FOR INJECTION MOULDING

Abstract: Source: FR2370774A L'invention decrit des compositions vulcanisables d'ethylene et d'acetate de vinyle, leur utilisation pour le moulage par injection et la reticulation et les produits industriels ainsi fabriques. En plus d'un copolymere d'ethylene et d'acetate de vinyle et d'une charge d'argile traitee par de l'organo-silane ou par de l'organo-polyester, la composition contient un peroxyde organique de reticulation et un accellerateur de cette reticulation. Les articles moules obtenus peuvent facilement s'enlever du moule. Ils sont souples et servent dans divers domaines et notamment pour produire diverses garnitures pour des automobiles.

Classifications:

International (ipc 8-9): B29C35/00 B29C43/00 B29C45/00
C08K5/14 C08K9/00 C08K9/04 C08K9/06 C08L101/00 C08L23/00
C08L31/00 C08L31/04 (Advanced/Invention);
B29C35/00 B29C43/00 C08K9/00 C08L101/00 C08L23/00
C08L31/00 (Advanced/Non-invention);
B29C35/00 B29C43/00 B29C45/00 C08K5/00 C08K9/00 C08L101/00
C08L23/00 C08L31/00 (Core/Invention)

International (ipc 1-7): B29F1/00 B29G3/00 C08F218/08
C08F255/02 C08J3/24 C08J5/00 C08K3/22 C08K5/00 C08K5/14
C08K9/04 C08K9/06 C08L23/02 C08L23/04 C08L23/08 C08L31/04

CPC: C08K9/04 C08K9/06 B29C45/0001

European: B29C45/00B C08K9/06

**SUBSTITUTE
REPLACEMENT**

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
AU197730421 A1	19790517	AU19770030421	19771107
AU509981 B2	19800605	AU19770030421	19771107
BE860668 A1	19780509	BE19770182503	19771109
BR7707492 A	19780718	BR19770007492	19771109
CA1093728 A1	19810113	CA19770289588	19771026
DE2750095 A1	19780511	DE19772750095	19771109
DE2750095 B2	19800117	DE19772750095	19771109
DE2750095 C3	19861113	DE19772750095	19771109
ES463939 A1	19780701	ES19770463939	19771108
FR2370774 A1	19780609	FR19770033760	19771109
FR2370774 B1	19840622	FR19770033760	19771109
GB1575113 A	19800917	GB19770046721	19771109
IT1088867 A	19850610	IT19770029506	19771109
JP1097412 C3	19820514	JP19770133664	19771109
JP1170546 C3	19831017	JP19810048492	19810402
JP53060945 A2	19780531	JP19770133664	19771109
JP56043254 B4	19811012	JP19770133664	19771109
JP56159141 A2	19811208	JP19810048492	19810402
JP58002060 B4	19830113	JP19810048492	19810402
NL7712350 A	19780512	NL19770012350	19771109

SE427280 A	00000000		00000000
SE427280 B	19830321	SE19770012678	19771109
SE427280 C	19830630	SE19770012678	19771109
SE7712678 A	19780622	SE19770012678	19771109
SE7712678 L	19780622	SE19770012678	19771109

Priority:

CA19770289588 19771026 US19760740412 19761109 US19760740412 19761110

Probable Assignee: UNION CARBIDE CORP

Assignee(s): (std): UNION CARBIDE CORP ; UNION CARBIDE TE NEW YORK CORP

Assignee(s): UNION CARBIDE CORP DANBURY CONN US ; UNION CARBIDE CORP NEW YORK N Y V ST A ; MARTINO CARLO F ; STUTZMAN GARY L

Inventor(s): (std): C F MARTINO ; CARLO FRANCIS MARTINO ; CF MARTINO ; G L STUTZMAN ; GARY LEE STUTZMAN ; GEARII RII SUTATSUTSUMAN ; GL STATZMAN ; KARURO FURANSHISU MARUTEINO ; MARTINO C ; MARTINO CARLO F ; STUTZMAN G ; STUTZMAN GARY L ; MARTINO CARLO FRANCIS ; STUTZMAN G L ; STATZMAN G L ; MARTINO C F ; STUTZMAN GARY LEE

Inventor(s): STUTZMAN G L AND MARTINO C F ; G L STATZMAN ; STUTZMAN GARY LEE WHITEHOUSE STATION ; STUTZMAN GARY LEE WHITEHOUSE STATION N J ; STUTZMAN GARY LEE WHITEHOUSE STATION NJ ; MARTINO CARLO FRANCIS SOMERVILLE NJ ; MARTINO CARLO FRANCIS SOMERVILLE ; MARTINO CARLO FRANCIS SOMERVILLE N J ; LEE STUTZMAN GARY ; FRANCIS MARTINO CARLO

Agent(s): LM; HOPLEY WILLIAM G

2) Family number: 8943286 (US5070124A)

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Title: SULFIDE ANTIOXIDANTS FOR STABILIZING CROSSLINKED POLYOLEFINS

Abstract: Source: US5070124A The present invention is a composition comprising crosslinked polyolefin resins and an amount of organic sulfide antioxidants sufficient to stabilize the resin against thermal or oxidative degradation, wherein the organic sulfide antioxidant is represented by Formula I, II or III wherein m, n, R, R 1, R 2, R 3, R 5, R 6, R 7 and R 8 are as set forth in the Summary of the Invention.

Classifications:

International (IPC 8-9): B60N3/00 B60N3/10 C08J3/24 C08K5/14 C08K5/36 C08K5/37 C08K5/372 C08L1/00 C08L1/08 C08L1/10 C08L101/00 C08L23/26 C08L23/32 C08L25/08 C08L57/00 C08L59/00 C08L67/00 C08L69/00 C08L71/08 C08L71/10 C08L71/12 C08L77/00 C08L81/02 C09K15/10 C09K15/12 (Advanced/Invention); C08L1/00 C08L101/00 C08L59/00 C08L67/00 C08L69/00 C08L77/00 (Advanced/Non-invention); B60N3/00 B60N3/10 C08K5/00 C08L1/00 C08L101/00 C08L23/00 C08L59/00 C08L67/00 C08L69/00 C08L71/00 C08L77/00 C08L81/00 C09K15/00 (Core/Invention)

International (IPC 1-7): A61J1/00 B65D81/00 C07C323/11 C08J3/24 C08K5/00 C08K5/14 C08K5/36 C08K5/37 C08K5/46 C08K5/524 C08L1/08 C08L1/10 C08L1/12 C08L1/14 C08L101/00 C08L23/00 C08L23/02 C08L23/04 C08L23/26 C08L23/34 C08L25/08 C08L35/06 C08L57/00 C08L59/00 C08L67/00 C08L69/00 C08L71/10 C08L71/12 C08L77/00 C08L81/02 C08L81/04 C08L81/06 C09K15/10 C09K15/12

CPC: C08K5/372 C08K5/14

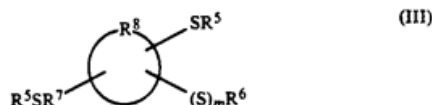
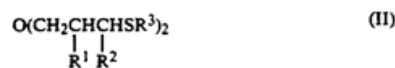
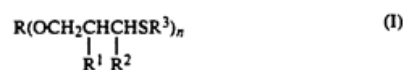
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US: 106/169 106/170.12 106/170.46 106/171.1 106/176 106/188 252/406 524/111 524/151 524/255 524/291 524/292 524/368 524/376 524/377 524/387 524/392 524/58 525/387

Family:

Publication number	Publication date	Application number	Application date
AU199061215 A1	19910509	AU19900061215	19900823
AU199063704 A1	19910509	AU19900063704	19901002
AU637132 B2	19930520	AU19900061215	19900823
AU642164 B2	19931014	AU19900063704	19901002
BRPI9005422 A	19910917	BR1990PI05422	19901026
BRPI9005423 A	19910917	BR1990PI05423	19901026
BRPI9005424 A	19910917	BR1990PI05424	19901026
BRPI9202838 A	19930323	BR1992PI02838	19920723
CA2026169 AA	19910501	CA19902026169	19900925
CA2026183 AA	19910501	CA19902026183	19900925
CA2027830 AA	19910501	CA19902027830	19901017
CA2074292 AA	19930125	CA19922074292	19920721
EP0426145 A1	19910508	EP19900120886	19901031
EP0427103 A1	19910515	EP19900120884	19901031
EP0429878 A1	19910605	EP19900120883	19901031
EP0525664 A1	19930203	EP19920112679	19920724
JP3160041 A2	19910710	JP19900290993	19901030
JP3160055 A2	19910710	JP19900290992	19901030
JP3170559 A2	19910724	JP19900287365	19901026
JP5194785 A2	19930803	JP19920214804	19920721
NO904699 A	19910502	NO19900004699	19901030
NO904699 A0	19901030	NO19900004699	19901030
NO904700 A	19910502	NO19900004700	19901030
NO904700 A0	19901030	NO19900004700	19901030
PH27124 A	19930316	PH19900041325	19901005
TW221451 B	19940301	TW19920105282	19920703
US5070124 A	19911203	US19890429899	19891031
US5081169 A	19920114	US19890429883	19891031
US5096947 A	19920317	US19910698235	19910506
US5284886 A	19940208	US19910735140	19910724

PatBase - US5096947_A



Priority:

CA19902026169 19900925 CA19902026183 19900925 US19890429682 19891031
US19890429883 19891031 CA19902027830 19901017 CA19922074292 19920721
US19910698235 19910506 US19890429899 19891031 US19910735140 19910724

Probable Assignee: ARKEMA INC**Assignee(s):** (std): ATOCHEM NORTH AMERICA ; ATOCHEM NORTH AMERICA ELF**Assignee(s):** ATOCHEM NORTH AMERICA INC ; ATOFINA CHEMICALS INC ; ELF ATOCHEM NORTH AMERICA INC ; ATOKEMU NORTH AMERICA INC ; ATOFINA CHEMICALS INC A CORP OF PENNSYLVANIA ; ATOCHEM NORTH AMERICA INC A PA CORP ; BOHEN JOSEPH M ; BOHEN JOSEPH MICHAEL ; HIBBARD EDWARD P ; PENNWALT CORP ; PENNWALT A CORP OF PA CORP ; PENNWALT THREE PARKWAY PHILADELPHIA PA A CORP OF P ; REILLY JAMES L ; REILLY JAMES LEO ; KAMATH VASANTH R ; ARKEMA INC**Inventor(s):** (std): BASANSU RASUNAKARU KAMASU ; BOHEN JOSEPH M ; BOHEN JOSEPH MICHAEL ; EDOWAADO FUJIRITSUPU HIBAADO ; JIEIMUZU REO RAIRI ; JIEIMUZU REO RAIRII ; JIYOZEFU MAIKERU BOOEN ; KAMATH VASANTH R ; KAMATH VASANTH RATHNAKAR ; REILLY JAMES L ; REILLY JAMES LEO ; HIBBARD EDWARD P ; HIBBARD EDWARD PHILLIP**Inventor(s):** JAMES LEO REILLY ; VASANTH RATHNAKAR KAMATH ; JOSEPH MICHAEL BOHEN ; EDWARD PHILLIP HIBBARD**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; BORDEN LADNER GERVAIS LLP**Designated states:** AT BE CH DE DK ES FR GB GR IT LI LU MC NL PT SE**3) Family number: 30816490** (US5264476A)

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Title: Olefin resin composition

Abstract: Source: US5264476A An olefinic resin composition which is moldable to shaped articles coatable with coating compositions without primers is prepared by blending (A) a cross-linked olefinic **thermoplastic** elastomer obtained from a homo- or co-polymer of alpha-olefin (C2-20) and **elastomeric** copolymer composed of alpha-olefins (C2-20), (B) a low-molecular weight modified polypropylene having and upbarand M of 2,000-20,000 which is grafted with **maleic anhydride** and (C) a tackifier.

Classifications:**International (IPC 8-9):** C08L21/00 C08L23/00 C08L23/10 C08L23/16 C08L23/26 C08L57/00 C08L57/10 (Advanced/Invention); C08L51/06 C08L57/02 C08L61/06 C08L91/00 (Advanced/Non-invention); C08L23/00 (Core/Invention);

C08L51/00 C08L57/00 C08L61/00 C08L91/00 (Core/Non-invention)

International (IPC 1-7): C08K5/01 C08L21/00 C08L23/00 C08L23/02 C08L57/00 C08L57/10**CPC:** C08L23/10 C08L23/16 C08L51/06 C08L57/02 C08L61/06 C08L91/00 C08L2023/42 C08L2205/035 C08L2312/00**European:** C08L23/10 C08L23/16 M08L205/035 M08L23/10 M08L23/16 M08L23/42 M08L312/00 M08L51/06 M08L57/02

M08L61/06 M08L91/00

US: 524/271 524/482 524/483 524/484 524/485 524/504**Family:**

Publication number	Publication date	Application number	Application date
CA2052780 AA	19920419	CA19912052780	19911004
DE69118477 D1	19960509	DE19916018477	19911017
DE69118477 T2	19960905	DE19916018477T	19911017
EP0481789 A2	19920422	EP19910309591	19911017
EP0481789 A3	19920520	EP19910309591	19911017
EP0481789 B1	19960403	EP19910309591	19911017
JP4154850 A2	19920527	JP19900281276	19901018
US5264476 A	19931123	US19920991749	19921217

Priority:

CA19912052780 19911004 JP19900281276 19901018 US19920991749 19921217
US19910775028 19911011

Probable Assignee: SUMITOMO CHEMICAL CO**Assignee(s):** (std): SUMITOMO CHEMICAL CO ; SUMITOMO CHEMICAL COMPANY LIMITED**Assignee(s):** SUMITOMO CHEMICAL CO LTD ; SUMITOMO CHEMICAL CO LTD OSAKA JP ; DAIMON AKIO ; IBUKI KOICHIRO ; SUMITOMO CHEM CO LTD**Inventor(s):** (std): IBUKI KOICHIRO ; DAIMON AKIO**Inventor(s):** IBUKI KOICHIRO ICHIHARA SHI CHIBA 299 01 JP ; DAIMON AKIO ICHIHARA SHI CHIBA 290 JP**Agent(s):** BULL HOUSSER AND TUPPER LLP**Designated states:** DE FR GB**4) Family number: 8515618** (US5597867A)

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Title: **THERMOPLASTIC** ELASTOMER COMPOSITION

Abstract: Source: US5597867A This invention provides a novel **thermoplastic** elastomer composition which is rich in flexibility and excellent in rubber elasticity over a broad temperature range, high-temperature creep characteristics, low-temperature impact resistance, mechanical strength and moldability, and have good oil resistance, good light discoloration resistance and extremely excellent toning properties in spite of **thermoplastic** elastomer and which is characterized by being obtained by dynamically heat-treating a mixture of (a) 100 parts by weight of a carbon-to-carbon double bond-containing rubber, (b) 5 to 300 parts by weight of a **thermoplastic** resin, (c) 0.5 to 30 parts by weight of an organosiloxane crosslinking agent having at least two SiH groups in the molecule, (d) 0.001 to 20 parts by weight of a hydrosilylating catalyst, (e) 0.5 to 20 parts by weight of a compatibilizing agent and, if necessary, (f) 30 to 300 parts by weight of a paraffinic oil. The present **thermoplastic** elastomer composition can be used as a material for various molded products.

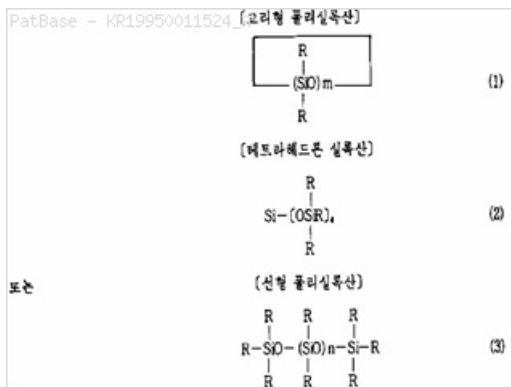
Classifications:**International (IPC 8-9):** C08K5/00 C08K5/54 C08K5/5419

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C08L83/05 C08L87/00 G06F11/00 G11B20/10 (Advanced/Invention);

C08L101/00 C08L83/04 C08L9/00 (Advanced/Non-invention);

C08L83/00 C08L87/00 G06F11/00 G11B20/10 (Core/Invention)
International (IPC 1-7): C08K5/00 C08K5/54 C08L101/00
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CPC: C08L23/22 C08K5/54 C08L9/02 C08L9/06 C08L21/00
C08L23/02 C08L23/0869 C08L23/10 C08L23/12 C08L23/16
C08L23/20 C08L23/26 C08L25/06 C08L27/06 C08L51/003
C08L53/025 C08L63/00 C08L67/02 C08L77/00 C08L77/02
C08L83/04 C08L2205/03 C08L2314/06
European: C08K5/54 C08L21/00 C08L23/02 C08L23/10 C08L23/16
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M08L205/03 M08L23/02 M08L23/08C3 M08L23/12 M08L23/16
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M08L83/04 M08L9/02
US: 523/435 523/436 523/437 523/438 524/504 524/505 524/506
525/100 525/101 525/103 525/105 525/106 525/74 525/92.00G
525/926 525/92G



Family:

Publication number	Publication date	Application number	Application date
AU199475795 A1	19950511	AU19940075795	19941013
AU676376 B2	19970306	AU19940075795	19941013
DE69409199 D1	19980430	DE19946009199	19941019
DE69409199 T2	19981203	DE19946009199T	19941019
EP0651009 A1	19950503	EP19940116491	19941019
EP0651009 B1	19980325	EP19940116491	19941019
JP2654356 B2	19970917	JP19940243006	19941006
JP7207071 A2	19950808	JP19940243006	19941006
KR100333563 B1	20021004	KR19940026897	19941020
KR19950011524 A	19950515	KR19940026897	19941020
TW273561 B	19960401	TW19940109440	19941012
US5597867 A	19970128	US19950570188	19951211

Priority:

JP19930263910 19931021 JP19930301795 19931201 JP19940243006 19941006
US19950570188 19951211 US19940326207 19941020 JP19930301796 19931201

Probable Assignee: SUMITOMO BAKELITE CO

Assignee(s): (std): SUMITOMO BAKELITE CO

Assignee(s): SUMITOMO BAKELITE CO LTD ; SUMITOMO BAKELITE CO LTD TOKIO TOKYO JP ; SUMITOMO BAKELITE COMPANY LIMITED ; SUMITOMO BAKELITE KK ; SUMITOMO BEEKURAITO KK

Inventor(s): (std): MIYAKE SUMIYA ; TSUJIMOTO MOTOYOSHI

Inventor(s): TSUJIMOTO MOTOYOSHI AKASHI SHI JP ; MIYAKE SUMIYA YOKOHAMA SHI JP ; MOTOYOSHI TSUJIMOTO ; MYAKE SUMYA ; SUMIYA MIYAKE

Agent(s): FB RICE; FB RICE PTY LTD

Designated states: DE FR GB IT NL

5) Family number: 31843866 (US2001009310A)

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Title: MULTILAYER GOLF BALL WITH A THIN THERMOSET OUTER LAYER

Abstract: Source: US2001009310A The present invention is directed towards a **method** of forming a multilayer golf ball which comprises a core, an inner cover layer and an outer cover layer. The steps include forming a golf ball core; molding an inner cover layer around said golf ball core with a material having a first shore D hardness; and casting an outer cover layer around said inner cover layer and golf ball core with a thermoset material having a second shore D hardness less than the first. The core is comprised of a center made from a first rubber based material and an outer layer formed from a second rubber based material. Preferably, the first rubber based material has about 15 to 25 parts of a crosslinking agent per hundred parts of rubber and the second rubber based material has about 20 to 40 parts of a crosslinking agent per hundred parts of rubber.

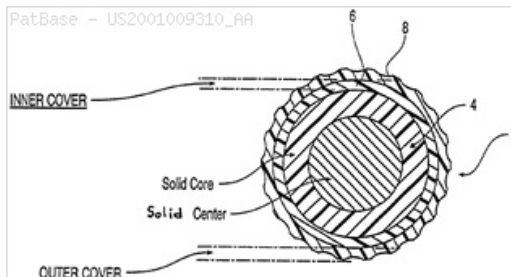
Classifications:

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C08L23/08 C08L9/00 C09D175/04 (Advanced/Invention);
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International (IPC 1-7): A63B37/00 A63B37/02 A63B37/04

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CPC: B29D99/0042 A63B37/0045 A63B37/0054 A63B37/0092 A63B37/12 A63B2037/087 B29C35/02 B29C39/00 B29C45/00
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Priority:

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Probable Assignee: ACUSHNET CO

Assignee(s): (std): ACUSHNET CO ; CAVALLARO CHRISTOPHER ; LADD DEREK A ; HEBERT EDMUND A ; BULPETT DAVID A ; COMEAU BRIAN ; VOORHEIS PETER R ; RAJAGOPALAN MURALI

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Inventor(s): SULLIVAN MICHAEL ; SHENSHEN WU ; MORGAN WILLIAM ; JONES DOUGLAS ; HEBERT EDMUND ; EDMUND A HERBERT ; DEAN A SNELL ; CHRISTOPHER CAVALLARO ; BULPETT DAVID ; BOSANKO RYAN

Agent(s): ACUSHNET CO; ACUSHNET COMPANY; WILLIAM B; LACY WILLIAM B; BINGHAM MCCUTCHEN LLP; MANDI B; MILBANK MANDI B

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

Title: Golf ball core compositions containing high vicat softening temperature, resilient **thermoplastic** materials

Abstract: Source: US2002032278A The invention is directed to golf ball core compositions comprising at least one natural or synthetic rubber and at least one high Vicat softening temperature **thermoplastic** material, **methods** of preparing the compositions, and golf ball cores and golf balls including the compositions. The compositions of the invention are made by mixing at least one natural or synthetic rubber and at least one **thermoplastic** or **thermoplastic** elastomer at a first temperature; cooling the mixture to a second temperature which is below an activation temperature of a free-radical initiator; adding the free-radical initiator to the first mixture to form a second mixture; and heating the second mixture to a third temperature that to facilitate crosslinking. The golf ball cores are incorporated into multilayer balls including dual cover balls with thin outer layers.

Classifications:

International (IPC 8-9): A63B37/00 A63B37/04

A63B37/06 (Advanced/Invention);

A63B37/04 (Advanced/Non-invention)

International (IPC 1-7): A63B37/00 A63B37/02 A63B37/06 C08L53/00 C08L67/00 C08L9/00

CPC: A63B37/0003 A63B37/0031 A63B37/0033 A63B37/0043

A63B37/0052 A63B37/0054 A63B37/0061 A63B37/0065

A63B37/0074 A63B37/0075 A63B37/0076 A63B37/0078

A63B37/0082 A63B37/0083 A63B37/0086 A63B37/0087

A63B37/0088 A63B37/04

European: A63B37/00G K63B37/00G10B2 K63B37/00G10B6

K63B37/00G10D2 K63B37/00G10D8 K63B37/00G12B2

K63B37/00G12B3 K63B37/00G12B4 K63B37/00G12D10

K63B37/00G12D12 K63B37/00G12D16 K63B37/00G12D18

K63B37/00G12D2 K63B37/00G12D20 K63B37/00G6D4

K63B37/00G6D6 K63B37/00G8D4 K63B37/04

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525/418P 525/74 525/88 525/88P 525/92.00A 525/92A

PatBase - US2002032278_AA

Patent Application Publication Mar. 14, 2002

US 2002/0032278 A1

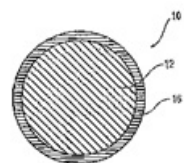


FIG. 1

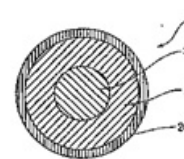


FIG. 2

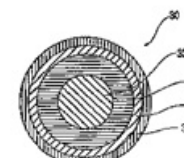


FIG. 3

Family:

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US6284840 BA	20010904	US1990285463	19990402
US6762244 BB	20040713	US20010940770	20010829
US7067582 BB	20060627	US20030720520	20031125
WO0059583 A1	20001012	WO2000US08334	20000329

Priority:

US1990285463 19990402 US20010940770 20010829 US20030720520 20031125
WO2000US08334 20000329

Probable Assignee: ACUSHNET CO

Assignee(s): (std): LADD DEREK A ; RAJAGOPALAN MURALI ; ACUSHNET CO

Assignee(s): ACUSHNET COMPANY ; KOREA DEVELOPMENT BANK NEW YORK BRANCH ; WELLS FARGO BANK NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS

Inventor(s): (std): LADD DEREK A ; RAJAGOPALAN MURALI

Inventor(s): DEREK A LADD ; MURALI RAJAGOPALAN

Agent(s): BINGHAM MCCUTCHEN LLP

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

7) Family number: 32510426 (US2004127614A)

Title: POLYOLEFIN ADHESIVE COMPOSITIONS AND ARTICLES MADE THEREFROM

Abstract: Source: US2004127614A Embodiments of the present invention relate to article comprising a polymer comprising one or more C3 to C40 olefins, optionally one or more diolefins, and less than 5 mole percent of ethylene having a Dot T-Peel of 1 Newton or more, a branching index (g') of 0.95 or less measured at the Mz of the polymer; and an Mw of 100,000 or less. This invention further relates to a process to produce an olefin polymer comprising: 1) selecting a first catalyst component capable of producing a polymer having an Mw of 100,000 or less and a crystallinity of 20 percent or less; 2) selecting a second catalyst component capable of producing polymer having an Mw of 100,000 or less and a crystallinity of 40 percent or more; 3) contacting the catalyst components in the presence of one or more activators with one or more C3 to C40 olefins, in a reaction zone.

Classifications:

International (IPC 8-9): B32B27/32 C08F10/00 C08F10/02

C08F10/04 C08F10/06 C08F10/14 C08F110/06 C08F110/14

C08F2/00 C08F2/38 C08F210/00 C08F210/04 C08F210/06

C08F210/14 C08F210/16 C08F210/18 C08F255/00 C08F255/02

C08F297/08 C08F4/44 C08F4/6392 C08F4/64 C08F4/642 C08F4/643
C08F4/646 C08F4/6592 C08F8/00 C08F8/46 C08G63/91 C08J3/00
C08K5/00 C08K5/01 C08K5/17 C08L101/00 C08L23/00 C08L23/04
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C08L91/06 C08L91/08 C08L93/04 C09D123/14 C09J11/00
C09J11/06 C09J11/08 C09J123/00 C09J123/02 C09J123/04
C09J123/10 C09J123/12 C09J123/14 C09J123/16 C09J123/20
C09J123/24 C09J123/26 C09J133/00 C09J145/00 C09J147/00
C09J151/06 C09J157/02 C09J191/06 C09J193/04 C09J201/00
C09J5/00 C09J7/02 C09J7/04 D01F6/30
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C08F10/00 C08F10/06 C08F110/06 C08F210/04 C08F210/06
C08F297/08 C08F4/64 C08F4/642 C08F4/646 C08F4/659
C08F4/6592 C08L51/06 C08L57/02 (Advanced/Non-invention);
B32B27/32 C08F10/00 C08F8/00 C08K5/00 C08L23/00 C08L51/00
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C08F110/00 C08F210/00 (Core/Non-invention)

International (IPC 1-7): C08F10/06 C08F2/00 C08F2/38 C08F210/04
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C09J123/12

CPC: C08F10/04 C08L23/10 C08L23/26 C09J123/12 C08L2207/12
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C09J153/02 C09J155/02 D21H17/35 D21H21/18 C09D123/10
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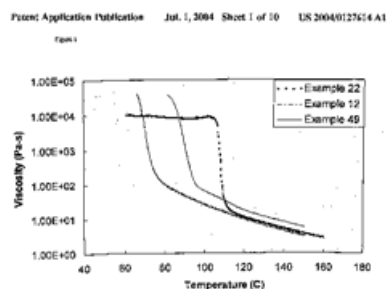
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US8193289 BB	20120605	US20090624697	20091124
US8222345 BB	20120717	US20090371273	20090213
US8563647 BB	20131022	US20110280381	20111025
US8618219 BB	20131231	US20060541185	20060929
US8653169 BB	20140218	US20060529839	20060929
US8653199 BB	20140218	US20120524288	20120615
US8957159 BB	20150217	US20130022663	20130910
US9051404 BB	20150609	US20130086298	20131121
WO04046214 A2	20040603	WO2003US32910	20031015
WO04046214 A3	20040805	WO2003US32910	20031015
WO05100501 A1	20051027	WO2005US12716	20050413
WO05105868 A1	20051110	WO2005US12714	20050413
WO05105941 A1	20051110	WO2005US12597	20050413
WO05108442 A1	20051117	WO2003US33163	20031015
WO05113622 A1	20051201	WO2005US12721	20050413
WO07002177 A1	20070104	WO2006US24116	20060621
WO08042037 A1	20080410	WO2007US17174	20070801
WO08042038 A1	20080410	WO2007US17179	20070801

Priority:

EP20030811599	20031015	EP20030818982	20031015	EP20050736591	20050413
US20020418482P	20021015	US20030460714P	20030404	JP20070508535	20050413
EP20100181853	20031015	EP20050777682	20050413	JP20070508535T	20050413
US20060541185	20060929	US20060529839	20060929	US20040825635	20040415
US20040825349	20040415	US20040825380	20040415	US20030686951	20031015
US20030687508	20031015	US20060472063	20060621	US20050694107P	20050624
US20040825348	20040415	US20050220114	20050906	US20040622964P	20041028
US20070888870	20070802	US20090371273	20090213	US20090624697	20091124
WO2006US24116	20060621	WO2003US33163	20031015	WO2003US32910	20031015
WO2005US12716	20050413	WO2005US12714	20050413	WO2005US12721	20050413
US20070888876	20070802	US20110280381	20111025	US20120524288	20120615
US20130022663	20130910	US20130086298	20131121	US20090541185	20090929

Probable Assignee: EXXONMOBIL CHEM PATENTS INC

Assignee(s): (std): ABHARI RAMIN ; BERNARD CHAD E ; BRANT PATRICK ; CANICH JO ANN M ; CANICH JO ANN MARIE ; CHOW WAI YAN ; DEKMEZIAN ARMENAG ; DEKMEZIAN ARMENAG HAGOP ; CURRY CHRISTOPHER L ; DEKMEZIAN ARMENGAG ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL PATENTES I ; DEKMEZIAN ARMENAG H ; EXXON MOBIL CORP ; JIANG PEIJUN ; GARCIA FRANCO CESAR A ; JOHNSRUD DAVID R ; GARCIA FRANCO CESAR ALBERTO ; JOHNSRUD DAVID RAYMOND ; LEWTAS KENNETH ; GONG CAIGUO ; KNAPPES NICHOLAS ; FAISSET MICHAEL L ; JACOB LUTZ E ; EXXONMOBIL CHEMICAL PATENTS INC ; HENNING DAVID AARON ; SIMS CHARLES L ; SIMS CHARLES LEWIS ; TSE MUN FU ; SCHAUDER JEAN ROCH ; NELSON KEITH A ; TSE MUN F ; WAKABAYASHI HIDEAKI ; SCHAUDER JEAN ROCH H ; LI FENG ; MATHEW THOTTINAL A ; LI JAMES F ; EXXON MOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL CO INC

Assignee(s): CURRY CHRISTOPHER LEWIS ; EXXONMOBILE CHEMICAL PATENTS INC ; NELSON KEITH ALLEN ; JACOB LUTZ ERICH ; KAPPES NICOLAS ; FAISSAT MICHEL LOUIS ; EXXONMOBIL CHEMICAL PATENTS INC A OF STATE OF DELAWARE CORP ; EXXONMOBIL CHEMICAL PATENTS INC BAYTOWN ; EXXONMOBIL CHEMICAL PATENTS INC A OF STATE OF DELAWARE BAYTOWN CORP ; EXXONMOBIL CHEMICAL PATENTES INC ; EXXON MOBIL CHEMICAL PATENTS INC

Inventor(s): (std): ABHARI RAMIN ; ALBERTO GARCIA FRANCO CESAR ; ALLEN NELSON KEITH ; ARMENAG DEKMEZIAN ; ARMENGAG DEKMEZIAN ; BERNARD CHAD E ; BRANT PATRICK ; CANICH JO ANN MARIE ; CANICH JOANN M ; CESAR A GARCIA FRANCO ; CHARLES L SIMS ; CHOW WAI YAN ; CHRISTOPHER L CURRY ; CURRY CHRISTOPHER L ; CAIGUO GONG ; CANICH JO ; CANICH JO ANN M ; CURRY CHRISTOPHER LEWIS ; DAVID R JOHNSRUD ; DEKMEZIAN ARMENAG ; DEKMEZIAN ARMENAG H ; DEKMEZIAN ARMENAG HAGOP ; DEKMEZIAN ARMENGAG ; ERICH JACOB LUTZ ; FAISSAT MICHAEL L ; FAISSAT MICHEL LOUIS ; FAISSET MICHAEL L ; FAISSET MICHEL L ; FU TSE MUN ; GARCIA FRANCO CESAR ; GARCIA FRANCO CESAR A ; GARCIA FRANCO CESAR ALBERTO ; GONG CAIGUI ; GONG CAIGUO ; HAGOP DEKMEZIAN ARMENAG ; HENNING DAVID AARON ; JACOB LUTZ E ; JACOB LUTZ ERICH ; JEAN ROCH SCHAUDER ; JIANG PEIJUN ; JIANG PEIJUN ; JOHNSRUD DAVID ; JOHNSRUD DAVID R ; JO ANN M CANICH ; JO JIANG PEIJUN DEKMEZIAN ARME ; JOHNSRUD DAVID RAYMOND ; KAPPES NICHOLAS ; LEWIS CURRY CHRISTOPHER ; LEWIS JIANG PEIJUN NELSON KEIT ; LEWIS SIMS CHARLES ; LEWTAS KENNETH ; LI FENG ; LI JAMES F ; LOUIS FAISSAT MICHEL ; LUTZ E JACOB ; MARIE ABHARI RAMIN SIMS CHARLE ; MARIE CANICH JO ANN ; KAPPES NICOLAS ; KEITH A NELSON ; KENNETH LEWTAS ; KNAPPES NICHOLAS ; MATHEW THOTTINAL A ; MATHEW THOTTINAL ABRAHAM ; MICHAEL L FAISSET ; NELSON KEITH A ; NELSON KEITH ALLEN ; NICHOLAS KNAPPES ; NICOLAS KAPPES ; PATRICK BRANT ; PEIJUN JIANG ; RAMIN ABHARI ; RAYMOND ABHARI RAMIN SIMS CHAR ; RAYMOND JOHNSRUD DAVID ; SCHAU ABHARI RAMIN SIMS CHARLE ; SCHAUDER JEAN ROCH ; SCHAUDER JEAN ROCH H ; SIMS CHARLES ; SIMS CHARLES L ; SIMS CHARLES LEWIS ; TSE MUN F ; TSE MUN FU ; WAKABAYASHI HIDEAKI ; YAN CHOW WAI

Inventor(s): TSE MUN FU SEABROOK ; TSE MUN ; SIMS CHARLES L HEMET ; SIMS CHARLES L HOUSTON ; PEIJUN JIANG ; NICHOLAS KAPPES ; NELSON KEITH A HOUSTON ; MICHEL L FAISSET ; MUN FU TSE ; MICHAEL L FAISSAT ; KNAPPES NICHOLAS BAYTOWN ; MATHEW THOTTINAL ; KAPPES NICHOLAS 1000 ; JOANN M CANICH ; JOHNSRUD DAVID R BAYTOWN ; JOHNSRUD DAVID R HUMBLE ; JIANG PEIJUN DEKMEZIAN ARMENAG CANICH JO ANN M ; JIANG PEIJUN DEKMEZIAN ARMENAG CANICH JO ANN M SIM ; JIANG PEIJUN LEAGUE CITY ; JIANG PEIJUN NELSON KEITH ALLEN CURRY ; JIANG PEIJUN NELSON KEITH ALLEN CURRY CHRISTOPHERL ; JIANG PEIJUN NELSON KEITH ALLEN CURRY CHRISTOPHERLEWIS DEKMEZIAN ARMENAG HAGOP SIMS CHARLES LEWIS ABHARI RAMIN GARCIA FRANCO CESAR ALBERTO CANICH JOANN MARIE KAPPES NICOLAS FAISSAT MICHEL LOUIS JACO ; HIDEAKI WAKABAYASHI ; GARCIA FRANCO CESAR A HOUSTON ; FAISSAT MICHEL LOUIS 1410 ; DEKMEZIAN ARMENGAG KINGWOOD ; DEKMEZIAN ARMENAG KINGWOOD ; DEKMEZIAN ARMENAG AUSTIN ; CANICH JO ANN M HOUSTON ; CANICH JO ANN ; CURRY CHRISTOPHER L DAYTON ; CURRY CHRISTOPHER L SEABROOK ; BRANT PATRICK SEABROOK ; BRANT PATRICK ; CAIGUI GONG ; ABHARI RAMIN BIXBY ; ABHARI RAMIN SIMS CHARLES L ; ABHARI RAMIN SIMS CHARLES L LEWTAS KENNETH TSE MUN ; ABHARI RAMIN SIMS CHARLES LEWIS JIANG PEIJUN ; ABHARI RAMIN SIMS CHARLES LEWIS JIANG PEIJUN JOHNSRUD DAVID RAYMOND CANICH JO ANN MARIE ; ABHARI RAMIN SIMS CHARLES LEWIS TSE MUN FU ; ABHARI RAMIN SIMS CHARLES LEWIS TSE MUN FU BRANT P ; ABHARI RAMIN SIMS CHARLES LEWIS TSE MUN FU BRANT PATRICK JIANG PEIJUN JOHNSRUD DAVID RAYMOND

Agent(s): BORDEN LADNER GERVAIS LLP ; UEXKUELL AND STOLBERG PARTNERSCHAFT VON PATENT U RECHTSANWALTEN MBB ; UEXKUELL AND STOLBERG ; POLS RONALD MAARTEN ; MARESCHAL ANNE ; GERSTBERGER GISELA ET AL ; SANTARELLI ; SUGIYAMA NAOTO ; SHIROGANE HIROSHI ; HOSHI TAKAKO ; AKAMATSU TOSHIKI ; YAMASAKI YUKUZO ; EXXONMOBIL CHEMICAL COMPANY ; EXXONMOBIL CHEMICAL CO ; EXXONMOBIL CHEMICAL COMPANY, LAW TECHNOLOGY ; EXXONMOBIL CHEMICAL CO LAW TECHNOLOGY ; EXXONMOBIL CHEMICAL COMPANY, LAW TECHNOLOGY ; CATHERINE L ; TIMMINS STEPHEN ; TIMMINS STEPHEN 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 YU ZA ZM ZW

8) Family number: 31994609 (US2005131154A)

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Title: ADHERENT, MODIFIED **THERMOPLASTIC ELASTOMERIC** BLENDS, ARTICLES, AND **METHODS**

Abstract: Source: US2005131154A A **thermoplastic** elastomer that is adherent to polar materials may be made from a dynamically **vulcanized** blend of propylene resin, ethylene/alpha-olefin/non-conjugated diene elastomers, and a bonding agent via a curing system containing a free radical initiator, at least one co-agent including multifunctional acrylates containing at least two acrylate groups, multifunctional maleimides containing at least two imide groups, or mixtures of both, where the elastomer gel content in the modified blend is at least about 97 percent. Reaction mixtures, articles made therefrom, and **methods** of dynamically **vulcanizing** are also disclosed.

Classifications:

International (ipc 8-9): C08F8/00 C08L23/00 C08L23/04 C08L23/10 C08L23/16 C08L35/00 C08L9/00 (Advanced/Invention); C08F8/00 C08L23/00 C08L35/00 C08L9/00 (Core/Invention)

International (IPC 1-7): C08F8/00 C08L23/00 C08L23/04 C08L35/00 C08L9/00
CPC: C08L23/10 C08L23/16 C08L51/06 C08L2312/00
European: C08F8/00 C08L23/10 C08L23/16 M08L23/10 M08L23/16 M08L312/00 M08L51/06
US: 525/191 525/192 525/192P 525/193 525/194 525/207 525/232 525/240

Family:

Publication number	Publication date	Application number	Application date
CN1906218 A	20070131	CN200480040490	20041124
EP1697426 A1	20060906	EP20040812148	20041124
EP1697426 A4	20100127	EP20040812148	20041124
EP2332997 A1	20110615	EP20100011156	20041124
US2005131154 AA	20050616	US20040877976	20040629
US7291677 BB	20071106	US20040877976	20040629
WO05061558 A1	20050707	WO2004US39568	20041124

Priority:

EP20040812148 20041124 US20030529099P 20031215 US20040877976 20040629
WO2004US39568 20041124

Probable Assignee: SOLVAY ENGINEERED POLYMERS

Assignee(s): (std): CAL KEVIN ; LYONDELLBASELL ADVANCED POLYOL ; LYONDELLBASELL ADVANCED POLYOLEFINS USA INC ; NGUYEN ANTHONY ; REID CHARLES G ; SOLVAY ENGINEERED POLYMERS INC

Assignee(s): SOLVAY ENGINEERED POLYMERS ; CAI KEVIN

Inventor(s): (std): CAI KEVIN ; CAL KEVIN ; CAL KEVIN NGUYEN ANTHONY REID ; NGUYEN ANTHONY ; REID CHARLES G

Inventor(s): REID CHARLES ; CAL KEVIN NGUYEN ANTHONY REID CHARLES G

Agent(s): REISS GILLES FRANCOIS; WINSTON AND STRAWN LLP; HAYNES AND BOONE LLP

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

9) Family number: 36076177 (US2006148989A)

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Title: POWER TRANSMISSION BELTS HAVING ENHANCED PROPERTIES

Abstract: Source: US2006148989A The present invention is directed to the incorporation of functionalized polyethylenes, in amount of about 4 percent to 50 percent by weight based upon the weight of the elastomer, into ethylene alpha olefin elastomers, such as EPDM elastomer compositions, which are crosslinked by peroxides, which results in improved properties, such as hardness and modulus of elongation, and can result in improved higher abrasion resistance, wear resistance, coefficient of friction, tensile strength, and high temperature properties, which are beneficial to power transmission products, such as power transmission belts.

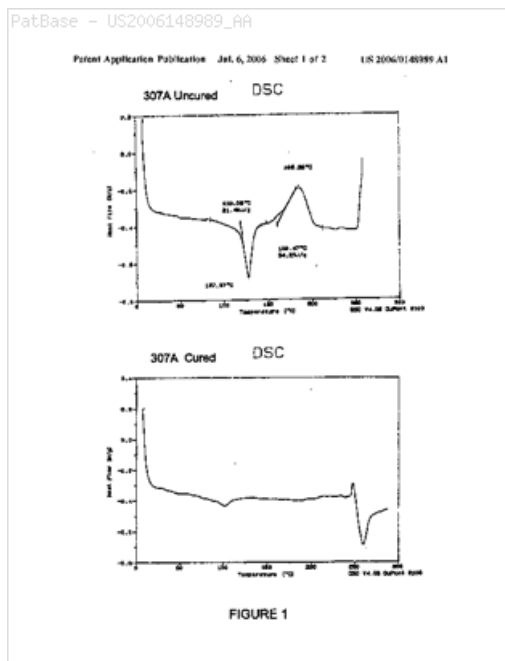
Classifications:

International (IPC 8-9): B32B25/10 B65G15/34 C08F8/00 C08K5/14 C08L23/00 C08L23/04 C08L23/06 C08L23/08 C08L23/10 C08L23/16 C08L23/30 C08L25/00 C08L31/04 C08L37/00 C08L45/00 C08L9/00 C08L91/06 C08L93/00 C09J91/06 F16G1/00 F16G1/02 F16G1/10 F16G5/08 F16G9/00 (Advanced/Invention); C08F8/00 C08L23/00 C08L31/00 C08L37/00 F16G1/00 F16G5/00 (Core/Invention)

CPC: C08L23/0869 C08L51/06 C08L2312/00 C08L23/30 C08L23/16 C08L2205/02 F16G1/10 F16G1/28 F16G5/06 F16G5/08 F16G5/20

European: C08F8/06 C08L23/16 C08L23/30 F16G1/10 F16G1/28 F16G5/06 F16G5/08 F16G5/20 M08L205/02 M08L23/08C3 M08L23/30 M08L312/00 M08L51/06

US: 474/264 474/271 524/274 524/275 524/517 524/524 524/524S 524/528 524/528S 525/191 525/192 525/192P 525/194 525/194S 525/211 525/232 525/240



Family:

Publication number	Publication date	Application number	Application date
BRPI0505652 A	20070717	BR2005PI05652	20051228
BRPI0505652 B1	20161101	BR2005PI05652	20051228
BRPI0505652 B8	20170321	BR2005PI05652	20051228
CN1837276 A	20060927	CN200510138089	20051231
CN1837276 B	20110608	CN200510138089	20051231
DE602005011747 D1	20090129	DE200560011747T	20051222
EP1679344 A1	20060712	EP20050112714	20051222
EP1679344 B1	20081217	EP20050112714	20051222
US2006148989 AA	20060706	US20040026769	20041231
US2006148990 AA	20060706	US20050290232	20051130

US2010190914 AA	20100729	US20100690323	20100120
US7655729 BB	20100202	US20050290232	20051130
US8030404 BB	20111004	US20100690323	20100120

Priority:

US20040026769 20041231 US20050290232 20051130 US20050290332 20051130
US20100690323 20100120

Probable Assignee: VEYANCE TECHNOLOGIES INC

Assignee(s): (std): ALCATEL ; ALCATEL LUCENT ; BURROWES GEORGE ; GOODYEAR TIRE AND RUBBER ; GREGG MIKE ; VEYANCE TECHNOLOGIES INC ; VEYANCE TECH INC

Assignee(s): LEHMAN COMMERCIAL PAPER INC ; LEHMAN COMMERCIAL PAPER INC COLLATERAL AGENT AS ; JPMORGAN CHASE BANK NA ; THE GOODYEAR TIRE AND RUBBER COMPANY ; GOODYEAR TIRE AND RUBBER CO

Inventor(s): (std): GREGG MICHAEL JOHN WILLIAM ; GREGG MIKE ; MICHAEL JOHN WILLIAM GREGG ; THOMAS GEORGE BURROWES ; WILLIAM BURROWES THOMAS GEORGE ; WILLIAM GREGG MICHAEL JOHN ; GEORGE BURROWES THOMAS ; BURROWES GEORGE ; BURROWES THOMAS GEORGE

Inventor(s): BURROWES THOMAS GEORGE GREGG MICHAEL JOHN WILLIAM

Agent(s): HELLWIG TILLMANN JOHANNES ET AL; ROETZEL AND ADDRESS; ALVIN T ROCKHILL; ALVIN T; KATHLEEN K

Designated states: DE FR GB

10) Family number: 34447962 (US2008255310A)

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Title: **THERMOPLASTIC** ELASTOMER COMPOSITION AND PROCESS FOR PRODUCING SAME

Abstract: Source: US2008255310A A **thermoplastic** elastomer composition having excellent durability and flexibility while possessing superior air impermeability. In particular, a process for producing a **thermoplastic** elastomer composition having high rubber content by multistage addition of at least one **vulcanizable** rubber component, in which the time required to substantially cure the at least one rubber component preferably is less the mixer residence time. Such compositions are particularly useful in applications such as tire innerliners and barrier films or layers.

Classifications:

International (IPC 8-9): B60C15/00 B60C5/14 C08K3/00 C08K5/00 C08K5/098 C08L101/00 C08L23/28 C08L27/00 C08L51/04 C08L77/00 C08L77/06 F16L11/04 (Advanced/Invention); B60C5/00 C08K3/00 C08K5/00 C08L23/00 C08L27/00 C08L77/00 F16L11/04 (Core/Invention)

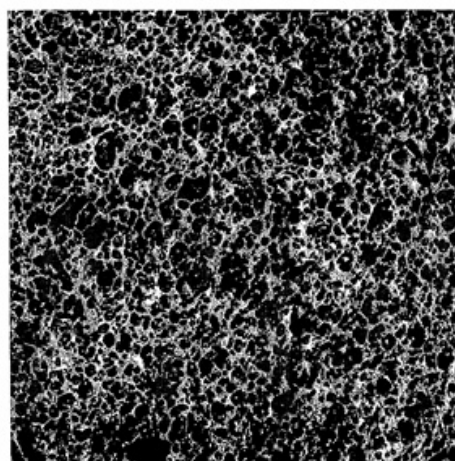
International (IPC 1-7): C08L23/28

CPC: Y10T152/10828 Y10T152/10846 C08L21/00 C08L7/00 C08L23/283 C08L53/02 C08L77/00

European: C08L21/00 C08L23/28B C08L77/00 M08L53/02 M08L7/00 M08L77/00

US: 152/510 152/543 152/547 525/178 525/178P 525/179 525/184 525/326.3

20 micron by 20 micron AFM Image of Example 13
(Light phase: Nylon; dark particulate phase: BIMS)



Family:

Publication number	Publication date	Application number	Application date
CA2627346 AA	20080425	CA20052627346	20051027
CA2627346 C	20120911	CA20052627346	20051027
CN101316891 A	20081203	CN200580052158	20051027
DE602005019797 D1	20100415	DE200560019797T	20051027
EP1940946 A1	20080709	EP20050823429	20051027
EP1940946 B1	20100303	EP20050823429	20051027
IN03178DN2008 A	20080815	IN2008DN03178	20080417
JP2009513772 T2	20090402	JP20080537667T	20051027
JP5247456 B2	20130724	JP20080537667T	20051027
RU2008121190 A	20091210	RU20080121190	20051027
RU2406739 C2	20101220	RU20080121190	20051027
US2008255310 AA	20081016	US20050091333	20051027
US7954528 BB	20110607	US20050091333	20051027
WO07050071 A1	20070503	WO2005US38824	20051027

Priority:

US20050091333 20051027 WO2005US38824 20051027

Probable Assignee: EXXONMOBIL CHEMICAL PATENTS INC

Assignee(s): (std): DZEH JOKOGAMA RABER KO LTD ; EHKSONMOBIL KEMIKAL PEHJTENS INK ; EXXONMOBIL CHEM PATENTS INC ; MEASMER MATTHEW BRIAN ; HARA YUICHI ; SOEDA YOSHIHIRO ; TSOU ANDY HAISHUNG ; YOKOHAMA RUBER CO LTD ; YOKOHAMA RUBBER CO LTD ; EXXONMOBIL CHEMICAL PATENTS INC

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JOSIKHIRO ; SOEDA YOSHIHIRO ; TSOU ANDY HAISHUNG ; TSOU EHNDI KHAJSHUNG ; YOSHIHIRO
SOEDA ; YUICHI HARA

Inventor(s): MISMER MEHTTJU BRAJAN ; MATTHEW BRIAN MEASMER ; ANDY HAISHUNG TSOU

Agent(s): BORDEN LADNER GERVAIS LLP; UEXKUELL AND STOLBERG; CONNOLLY BOVE LODGE AND HUTZ LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE
KG KM KN KP KR KZ LC 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 VU ZA ZM ZW

11) Family number: 34533465 (US2007129477A)

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Title: ELASTOMER NANOCOMPOSITES COMPRISING ISOBUTYLENE AND MULTIFUNCTIONAL OLIGOMERS

Abstract: Source: US2007129477A The present invention provides a nanocomposite of an elastomer, a polymer or oligomer functionalized with a polar group, and a clay. The nanocomposite can be a mixture of a halogenated elastomer, an acid or acid anhydride modified polymer, and a clay, desirably an exfoliated clay, suitable for use as an air barrier. Also disclosed is a nanocomposite that can be a mixture of a halogenated elastomer, a polymer modified with a carboxylic acid, and an organoclay.

Classifications:

International (IPC 8-9): B60C1/00 C08K3/04 C08K3/22 C08K3/26 C08K3/34 C08K5/09 C08K5/14 C08K9/04 C08L101/02
C08L19/00 C08L23/00 C08L23/22 C08L23/26 C08L23/28 C08L25/16 (Advanced/Invention);
C08K3/00 C08K5/00 C08L101/00 C08L23/00 (Core/Invention)

International (IPC 1-7): C08L23/00

CPC: C08L23/00 C08L23/286 C08L51/06

European: C08L23/00 C08L23/28D M08L51/06

US: 524/114 524/322 524/394 524/399 524/425 524/425S 524/431 524/431S 524/432 524/432S 524/445 524/445S 524/449
524/449S 524/451 524/451S 524/493 524/493S 524/519

Family:

Publication number	Publication date	Application number	Application date
CA2631692 AA	20080530	CA20062631692	20061004
CA2631692 C	20110906	CA20062631692	20061004
CN101316888 A	20081203	CN200680044788	20061004
CN101316888 B	20131023	CN200680044788	20061004
EP1954755 A1	20080813	EP20060836178	20061004
IN03607DN2008 A	20080815	IN2008DN03607	20080429
IN256180 B	20130517	IN2008DN03607	20080429
JP2009517524 T2	20090430	JP20080543276T	20061004
JP5419257 B2	20140219	JP20080543276T	20061004
RU2008126740 A	20100110	RU20080126740	20061004
RU2430122 C2	20110927	RU20080126740	20061004
US2007129477 AA	20070607	US20050293561	20051202
US7632886 BB	20091215	US20050293561	20051202
WO07064400 A1	20070607	WO2006US38785	20061004

Priority:

US20050293561 20051202 WO2006US38785 20061004

Probable Assignee: EXXONMOBIL CHEMICAL PATENTS INC

Assignee(s): (std): KARP KRIS RANDALL ; JOHNSTON MOLLY WESTERMANN ; GONG CAIGUO ; NEAGU CARMEN ; KARP
KRISS R ; JOHNSTON MOLLY W ; POOLE BEVERLY J ; DIAS ANTHONY J ; DIAS ANTHONY JAY ;
EHKSONMOBIL KEMIKEHL PEJTENTS INK ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL
CHEMICALS PATENTS I ; WENG WEIQING ; POOLE BEVERLY JEAN

Assignee(s): KARP KRISS RANDALL ; EXXONMOBIL CHEMICAL PATENTS INC ; EXXONMOBIL CHEMICALS PATENTS
INC

Inventor(s): (std): CAIGUO GONG ; DAJAS ANTONI DZHEJ ; DIAS ANTHONY J ; DIAS ANTHONY JAY ; DZHONSTON MOLLII
UEHSTERMANN ; GON KAJGU ; GONG CAIGUO ; JEAN POOLE BEVERLY ; JOHNSTON MOLLY W ;
JOHNSTON MOLLY WESTERMANN ; KARP KRIS RANDALL ; KARP KRISS R ; KARP KRISS RANDALL ;
POOLE BEVERLY J ; POOLE BEVERLY JEAN ; PUL BEVERLI DZHIN ; VEHN VEHTSIN ; WEIQING WENG ;
WENG WEIQING ; WESTERMANN JOHNSTON MOLLY ; RANDALL KARP KRIS ; JAY DIAS ANTHONY ;
CARMEN NEAGU ; NEAGU CARMEN ; NEAGU KARMEN

Inventor(s): POOLE BEVERLY ; KRISS RANDALL KARP ; MOLLY WESTERMANN JOHNSTON ; KARP KRISS ; JOHNSTON
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AKAMATSU TOSHIAKI; YAMASAKI YUKUZO; EXXONMOBIL CHEMICAL COMPANY, LAW TECHNOLOGY;
EXXONMOBIL CHEMICAL CO LAW TECHNOLOGY; LEANDRO; NANCY T

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

12) Family number: 41695218 (US2009076203A)

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Title: LOW PERMEABILITY **ELASTOMERIC** METAL PHOSPHATE NANOCOMPOSITES

Abstract: Source: US2009076203A The present invention provides a nanocomposite of an isobutylene-based elastomer and a phosphate nanofiller. Also disclosed is a nanocomposite embodiment wherein the elastomer is BIMS and high aspect ratio, partially intercalated, partially exfoliated alpha-zirconium phosphate treated with amine or amide. A dispersion aid can include a low molecular weight polymer or oligomer, optionally functionalized with a polar group. The nanocomposite is suitable for use as an air barrier.

Classifications:

International (IPC 8-9): B01J31/24 C08K3/10 C08K3/32 C08K5/00 C08K5/098 C08K5/17 C08K5/20

C08K9/04 (Advanced/Invention);
 B01J31/16 C08K3/00 C08K5/00 C08K9/00 (Core/Invention)
CPC: C08K9/08 C08K2201/008 C08K2201/011 C08K9/04 B82Y30/00
European: C08K9/04
US: 524/236 524/237 524/242 524/322 524/399 524/413 524/417 524/711

Family:

Publication number	Publication date	Application number	Application date
US2009076203 AA	20090319	US20060497634	20060802
US7498381 BA	20090303	US20060497634	20060802
WO08042025 A2	20080410	WO2007US13197	20070604
WO08042025 A3	20090122	WO2007US13197	20070604

Priority:

US20060497634 20060802

Probable Assignee: EXXONMOBIL CHEMICAL PATENTS INC

Assignee(s): (std): DE PUYDT YVES FERNAND ; EXXONMOBIL CHEM PATENTS INC ; ROBBERECHTS HERMAN ; TSOU ANDY H

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s): (std): DE PUYDT YVES FERNAND ; ROBBERECHTS HERMAN ; TSOU ANDY H

Agent(s): EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; FENG XIAOBING; BELL CATHERINE L; CATHERINE L; XIAOBING; FENG XIAOBING 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 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

13) Family number: 43626174 (US2011003928A)

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Title: **THERMOPLASTIC** ELASTOMER COMPOSITION AND **METHOD** FOR PRODUCING THE SAME

Abstract: Source: US2011003928A The present invention provides a **thermoplastic** elastomer composition obtained by dynamically crosslinking, under a melting condition, 100 parts by mass of a block copolymer (I), 1 to 1,000 parts by mass of a polar resin (II), 1 to 500 parts by mass of a modified polymer (III), and 0.01 to 50 parts by mass of a crosslinking agent (IV), wherein the block copolymer (I) comprises at least one polymer block (A) comprising as a main component an alkylene unit, and/or at least one copolymer block (B) comprising as main components an alkylene unit (b-1) and a vinyl aromatic monomer unit (b-2), and comprises at least one unsaturated block (C) comprising as a main component a conjugated diene monomer unit having 5 or more carbon atoms at an end.

Classifications:

International (IPC 8-9): C08F279/02 C08F297/04 C08K5/14 C08L101/00 C08L53/00 C08L53/02

C08L77/00 (Advanced/Invention);

C08F279/02 C08K5/14 C08L101/00 C08L53/02 (Advanced/Non-invention);

C08F279/00 C08K5/00 C08L101/00 C08L53/00 (Core/Invention)

CPC: C08F297/046 C08L77/00 C08L2205/02 C08L2205/03 C08L2312/00 C08L53/02

European: C08F297/04N C08L53/02 C08L77/00 M08L205/02 M08L205/03 M08L312/00 M08L53/02 M08L77/00

US: 524/502 525/63 525/64 525/65 525/66 525/67 525/92.00BS 525/92.00CS 525/92.00ES 525/92.00HS 525/92B 525/92C 525/92E 525/92H 525/92R 525/93 525/93S 525/98 525/98S 525/99

Family:

Publication number	Publication date	Application number	Application date
CN101939376 A	20110105	CN200980104080	20090204
CN101939376 B	20140319	CN200980104080	20090204
DE602009024584 D1	20140724	DE200960024584T	20090204
EP2239299 A1	20101013	EP20090709376	20090204
EP2239299 A4	20110622	EP20090709376	20090204
EP2239299 B1	20140611	EP20090709376	20090204
ES2478819 T3	20140723	ES20090709376T	20090204
JP2009099105 A1	20110526	JP20090552492T	20090204
JP5650405 B1	20150107	JP20090552492T	20090204
KR101183733 B1	20120917	KR20107015076	20090204
KR20100090807 A	20100817	KR20107015076	20090204
US2011003928 AA	20110106	US20090865407	20090204
US8415428 BB	20130409	US20090865407	20090204
WO09099105 A1	20090813	WO2009JP51894	20090204

Priority:

EP20090709376 20090204 JP20080028373 20080208 WO2009JP51894 20090204
 JP20090552492 20090204

Probable Assignee: ASAHI KASEI CHEMICALS CORP

Assignee(s): (std): ARAKI YOSHIFUMI ; ASAHI CHEMICAL CORP ; ASAHI KASEI CHEMICALS CORP ; FUJIWARA MASAHIRO ; KUSANOSE YASUHIRO ; SHIMIZU DAISUKE

Inventor(s): (std): ARAKI YOSHIFUMI ; DAISUKE SHIMIZU ; FUJIWARA MASAHIRO ; KUSANOSE YASUHIRO ; MASAHIRO FUJIWARA ; SHIMIZU DAISUKE ; YASUHIRO KUSANOSE ; YOSHIFUMI ARAKI

Agent(s): PATENTANWAELE STREHL SCHUEBEL HOPF AND PARTNER; BRADLEY JOSEPHINE MARY; OBRIEN SIMON WARWICK; DE ELZABURU ALBERTO; INABA YOSHIYUKI; GREENBLUM AND BERNSTEIN PLC; GREENBLUM AND BERNSTEIN P L C; INABA YOSHIYUKI 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: IONIC ELASTOMERS WITH SHAPE MEMORY AND **METHOD** FOR THE PRODUCTION THEREOF

Abstract: The present invention relates to a material formed by a, preferably **elastomeric**, polymeric network, which is characterized in that it comprises networks of ionic and covalent nature that interpenetrate one another, to the **method** for the production of said material and to the possible uses thereof as a material with shape memory, in which the transformation temperature is the ionic transition temperature, said material being used to manufacture actuators, sensors, artificial muscles, intelligent tissue, intelligent packaging or biomedical devices.

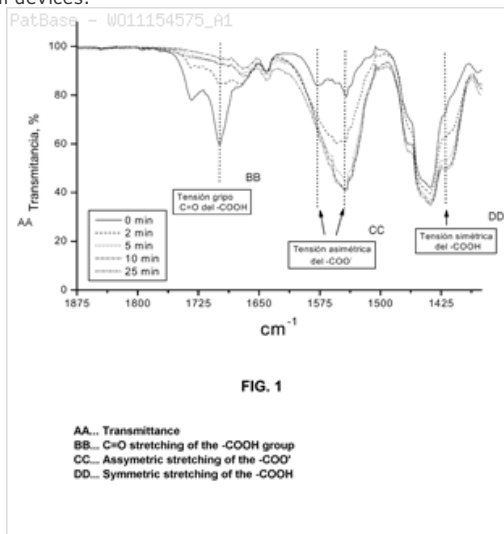
Classifications:

International (IPC 8-9): C08L13/00 C08L15/00

C08L9/02 (Advanced/Invention)

CPC: C08L13/00 C08K3/22 C08L9/02 C08L15/00

European: C08K3/22 C08L13/00



Family:

Publication number	Publication date	Application number	Application date
ES2370987 AA	20111226	ES20100030891	20100609
ES2370987 BA	20121102	ES20100030891	20100609
WO11154575 A1	20111215	WO2011ES70381	20110526

Priority:

ES20100030891 20100609

Probable Assignee: CONSEJO SUPERIOR INVESTIGACION

Assignee(s): (std): CONSEJO SUPERIOR INVESTIGACION ; IBARRA RUEDA LUIS MARIA ; LOPEZ VALENTIN JUAN ; RODRIGUEZ DIAZ ANDRES ; MORA BARRANTES IRENE ; ALONSO MALMIERCA MARTA

Assignee(s): CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS CSIC

Inventor(s): (std): IBARRA RUEDA LUIS M ; IBARRA RUEDA LUIS MA ; IBARRA RUEDA LUIS MARIA ; ALONSO MALMIERCA MARTA ; LOPEZ VALENTIN JUAN ; MORA BARRANTES IRENE ; RODRIGUEZ DIAZ ANDRES

Inventor(s): LUIS M IBARRA RUEDA ; MARTA ALONSO MALMIERCA ; ANDRES RODRIGUEZ DIAZ ; IRENE MORA BARRANTES ; JUAN LOPEZ VALENTIN

Agent(s): PONS ANGEL; UNGRIA LOPEZ JAVIER

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: NEW COMPOSITE MATERIALS BASED ON RUBBERS, ELASTOMERS, AND THEIR RECYCLED

Abstract: Source: US2015210839A The present invention refers to developing and obtaining new composite materials based on rubbers and/or elastomers and/or their recycled can be reused through an in situ polymerization program between the combination of different monomers and/or oligomers type diisocyanate, esters, or **organic peroxides** cross-linking agent, which in their combination generate a binding agent capable of modifying the intrinsic chemical, thermal, rheological, and mechanical properties of each base material, due to the chemical curing of the monomers present in the material and the chains chemical cross-linking originated by the incorporation of **organic peroxides** which are able to accelerate or decrease the reaction rate.

Classifications:

International (IPC 8-9): C08G18/42 C08G18/61 C08G18/65 C08G18/66 C08G18/76 C08J3/24 C08L17/00 C08L21/00

C08L23/16 C08L23/22 C08L67/00 C08L75/04 C08L75/06 C08L9/00 C08L9/02 C08L9/06 (Advanced/Invention);

B29C43/00 C08G18/00 (Core/Invention)

CPC: C08L9/02 C08L9/06 C08L67/00 C08L23/22 C08L23/16 C08L17/00 C08G18/10 C08L75/06 C09J175/06

C08G18/4277 C08G18/7671 C08L2205/02 C08L2205/03 C08L2205/035 C08L2207/20 C08L21/00 C08L75/04 C08G18/3206

US: 525/123 525/125 525/191 525/232 525/233

Family:

Publication number	Publication date	Application number	Application date
CA2880936 AA	20150730	CA20152880936	20150129
MX2014001230 A1	20150729	MX20140001230	20140130
US2015210839 AA	20150730	US20150608327	20150129
US2016222207 AA	20160804	US20150933093	20151105
US9752019 BB	20170905	US20150933093	20151105

Priority:

Probable Assignee: KAUTEC TECHNOLOGIES SAPI DE CV

Assignee(s): (std): CENTRO DE INVESTIGACION EN MAT AVANZADOS S C ; KAUTEC TECH S A P I DE C V ; KAUTEC TECHNOLOGIES S A P I DE C V ; CT DE INVESTIGACION EN MATERIALES AVANZADOS S C

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Inventor(s): ALEJANDRO VEGA RIOS ; SERGIO GABRIEL FLORES GALLARDO ; GRECIA ANDREA BUENO HERRERA ; MONICA ELVIRA MENDOZA DUARTE ; RENE LOYA ENRIQUEZ ; ERASTO ARMANDO ZARAGOZA CONTRERAS ; ERIKA IVONNE LOPEZ MARTINEZ

Agent(s): HICKS INTELLECTUAL PROPERTY LAW; EVELYN A; DEFILLO AND ASSOCIATES INC

16) Family number: 59342184 (WO16151301A1)
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Title: **THERMOPLASTIC** ELASTOMER COMPOSITION AND A PROCESS FOR ITS PRODUCTION

Abstract: An elastomer composition is provided, the composition comprising a polyolefin; crumb rubber; a peroxide; and a polyolefin grafted **maleic anhydride**. A **method** of forming the composition is also provided.

Classifications:

International (IPC 8-9): C08L17/00 C08L23/12 C08L23/14 (Advanced/Invention); C08L51/00 (Advanced/Non-invention)

CPC: C08L23/14 C08L2555/34 C08L23/12 C08L17/00 C08L51/00

Family:

Publication number	Publication date	Application number	Application date
GB201504851 A0	20150506	GB20150004851	20150323
GB2536641 A1	20160928	GB20150004851	20150323
WO16151301 A1	20160929	WO2016GB50768	20160318

Priority:

GB20150004851 20150323

Probable Assignee: CRUMB RUBBER LTD

Assignee(s): (std): CRUMB RUBBER LTD

Inventor(s): (std): DAVID YOUNG ; YOUNG DAVID

Agent(s): AKERS NOEL JAMES

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