

Search history

Search PN=(WO2016000968) (Results 1)

1:

Search [SP]: 1. a multifilament fibre comprising at least one polymer comprising a polyester, and at least one filler comprising calcium carbonate, wherein the calcium carbonate is present in the multifilament fibre in an amount of at least 2 wt.-% percent, based on the total weight of the multifilament fibre. 2. the multifilament fibre of claim 1, wherein the polyester is selected from the group consisting of a polyglycolic acid, a polycaprolactone, a polyethylene adipate, a polyhydroxyalkanoate, a polyhydroxybutyrate, a polyalkylene terephthalate, a polyethylene terephthalate, a polytrimethylene terephthalate, a polybutylene terephthalate, a polyethylene naphthalate, a polylactic acid, or a mixture thereof, or copolymers thereof, preferably the polyester is a polyethylene terephthalate and/or a polybutylene terephthalate. 3. the multifilament fibre of claim 1, wherein the calcium carbonate is ground calcium carbonate, precipitated calcium carbonate, modified calcium carbonate, surface-treated calcium carbonate, or a mixture thereof, preferably surface-treated calcium carbonate. 4. the multifilament fibre of claim 1, wherein the calcium carbonate is a surface-treated calcium carbonate comprising on at least a part of its accessible surface area a treatment layer comprising a hydrophobising agent, preferably the hydrophobising agent is selected from the group consisting of an aliphatic carboxylic acid having a total amount of carbon atoms from C4 to C28 and/or reaction products thereof, a mono-substituted succinic anhydride consisting of succinic anhydride mono-substituted with a group selected from a linear, branched, aliphatic and cyclic group having a total amount of carbon atoms from at least C2 to C30 in the substituent and/or reaction products thereof, a phosphoric acid ester blend of one or more phosphoric acid mono-ester and/or reaction products thereof and one or more phosphoric acid di-ester and/or reaction products thereof, and mixtures thereof, and more preferably the hydrophobising agent is a mono-substituted succinic anhydride consisting of succinic anhydride mono-substituted with a group selected from a linear, branched, aliphatic and cyclic group having a total amount of carbon atoms from at least C2 to C30 in the substituent and/or reaction products thereof and/or a phosphoric acid ester blend of one or more phosphoric acid mono-ester and/or reaction products thereof and one or more phosphoric acid di-ester and/or reaction products thereof. 5. the multifilament fibre of claim 1, wherein the calcium carbonate has a weight median particle size d50 from 0.1 to 3 µm, preferably from 0.4 to 2.5 µm, more preferably from 1.0 to 2.3 µm, and most preferably from 1.2 to 2.0 µm. 6. the multifilament fibre of claim 1, wherein the calcium carbonate is present in the multifilament fibre in an amount from 2 to 50 wt.-% percent, preferably from 5 to 40 wt.-% percent, more preferably from 8 to 35 wt.-% percent, and most preferably from 10 wt.-% percent to 30 wt.-% percent, based on the total weight of the multifilament fibre. 7. the multifilament fibre of claim 1, wherein the multifilament fibre has a linear mass density from 0.5 to 4000 dtex, preferably from 1 to 3000 dtex, more preferably from 10 to 2000 dtex, and most preferably from 100 to 1500 dtex. 8. a textile article comprising at least one multifilament fibre according to claim 1. 9. the textile article according to claim 8, wherein said article is selected from construction products, consumer apparel, industrial apparel, medical products, home furnishings, protective products, packaging materials, cosmetic products, hygiene products, filtration materials, hoses, power belts, ropes, nets, threads, tire cords, auto upholstery, sails, floppy disk liners, or fibrefills. 10. a process for producing a multifilament fibre comprising the steps of a) providing a mixture comprising at least one polymer comprising a polyester and at least one filler comprising calcium carbonate, b) melting the mixture of step a) and passing the same through shaped orifices to form a multifilament fibre, and c) quenching the multifilament fibre, wherein the calcium carbonate is present in the multifilament fibre in an amount of at least 2 wt.-% percent, based on the total weight of the multifilament fibre. 11. the process of claim 10, wherein the mixture of step a) is a mixture of a masterbatch and an additional polymer, wherein the masterbatch comprises at least one polymer comprising a polyester and at least one filler comprising calcium carbonate, preferably in the masterbatch the calcium carbonate is present in an amount from 10 to 85 wt.-% percent, preferably from 20 to 80 wt.-% percent, more preferably from 30 to 75 wt.-% percent, and most preferably from 40 wt.-% percent to 75 wt.-% percent, based on the total weight of the masterbatch. 12. the process of claim 10, wherein the process further comprises a step d) of drawing the multifilament fibre. 13. use of calcium carbonate as filler in a multifilament fibre comprising at least one polymer comprising a polyester, wherein the calcium carbonate is present in the multifilament fibre in an amount of at least 2 wt.-% percent, based on the total weight of the multifilament fibre. 14. use of at least one multifilament fibre according to claim 1 for producing a textile article. 15. use of at least one multifilament fibre according to claim 1 and/or a textile article comprising same in construction products, waterproofing, thermal insulation, soundproofing, roofing, consumer apparel, upholstery and clothing industries, industrial apparel, medical products, home furnishings, protective products, packaging materials, cosmetic products, hygiene products, filtration materials, agritechnical applications, building application, geotechnical applications, industrial applications, medical applications, transporting, ecotechnical applications, packaging applications, personal protection, property protection, or sport applications. 646055.1 (Results 25)

Search (multifilament fiber) and polymer and polyester and (calcium carbonate) (Results 65)

3:

Title: COMPOSITIONS AND METHODS FOR TREATING DIVERTICULAR DISEASE

Abstract: Agents, compositions, and implants are provided herein for treating diverticular disease (e.g., diverticulosis and diverticulitis). In particular, fibrosis-inducing agents, hemostatic agents, and/or anti-infective agents, or compositions containing one or more of these agents are provided for use in methods for treating diverticular disease.

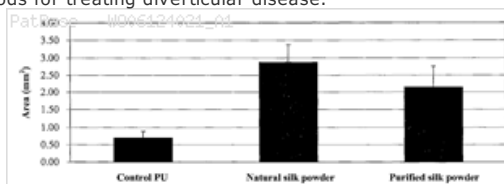
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A61K9/70 A61L24/00 A61L31/16 A61P1/04 A61P11/00 A61P13/02
A61P31/04 A61P43/00 A61P7/04 (Advanced/Invention);

A61K31/716 A61K31/74 A61K33/00 A61K35/36 A61K35/56
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CPC: A61L31/16 A61L31/18 A61L2300/30 A61L2300/404 A61L2300/406 A61L2300/418 A61L2300/44 A61L2300/45

European: A61L31/16 A61L31/18 K61L300/300 K61L300/404 K61L300/406 K61L300/418 K61L300/440 K61L300/450



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JP2008540521 T2	20081120	JP20080511094T	20050512
WO06124021 A1	20061123	WO2005US16871	20050512

Priority:

WO2005US16871 20050512

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

Abstract: A thermoplastic resin composition is disclosed which comprises a matrix **polymer**, and a combination of a fluoropolymer that can be at least partially encapsulated by an encapsulating **polymer**, and a filler. Methods for making the thermoplastic resin composition and articles made of such compositions are also disclosed. The composition and article can have improved tensile modulus, ductility and impact properties.

Classifications:

International (IPC 8-9): B28B1/00 B29B7/00 B29C45/00 B29C49/00 C08G18/42 C08G63/02 C08G63/183 C08G63/185 C08G63/60 C08G63/66 C08G63/672 C08G63/78 C08J11/04 C08J11/06 C08J11/24 C08J3/22 C08K3/00 C08K3/04 C08K3/08 C08K3/10 C08K3/22 C08K3/26 C08K3/30 C08K3/34 C08K5/04 C08K5/34 C08K5/3412 C08K5/35 C08K5/353 C08K5/523 C08K7/06 C08K9/10 C08L1/00 C08L101/00 C08L23/08 C08L25/12 C08L25/14 C08L27/12 C08L27/18 C08L33/06 C08L33/08 C08L51/00 C08L53/00 C08L55/02 C08L63/00 C08L67/00 C08L67/02 C08L67/03 C08L69/00 C09K21/00 (Advanced/Invention); B29K67/00 C08K3/00 C08L27/12 C08L55/02 (Advanced/Non-invention); B28B1/00 B29B7/00 B29C45/00 C08G18/00 C08G63/00 C08J11/00 C08J3/20 C08K3/00 C08K5/00 C08L1/00 C08L101/00 C08L23/00 C08L25/00 C08L27/00 C08L33/00 C08L63/00 C08L67/00 C08L69/00 C09K21/00 (Core/Invention); C08K3/00 C08L27/00 C08L55/00 (Core/Non-invention)

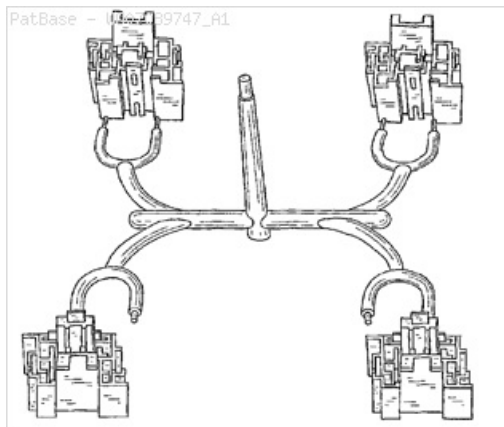
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**Family:**

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ONDA ; SHIDDAPPA TOTAD RAJASHEKHAR ; KUMAR GAGGAR SATISH

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; SCHIEBER FARAGO; MODIANO MICAELA NADIA; MUELLER FRANK PETER ET AL; MUELLER FRANK PETER; BAUER CLEMENS; MUELLER SCHUPFNER AND PARTNER; CARPINTERO LOPEZ FRANCISCO; HENRY H GIBSON GE PLASTICS; CANTOR COLBURN LLP; GEAM - CPP PATENTS; GEAM CPP PATENTS; SABIC - O8CV - CPP, SABIC INNOVATIVE PLASTICS - IP LEGAL; SABIC O8CV CPP SABIC INNOVATIVE PLASTICS IP LEGAL; SABIC - CPP PATENTS, SABIC INNOVATIVE PLASTICS - IP LEGAL; SABIC CPP PATENTS SABIC INNOVATIVE PLASTICS IP LEGAL; DIDERICO VAN; DIDERICO; REIMER LEAH M

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 YU ZA ZM ZW

Title: RESIN COMPOSITION AND MOLDED ARTICLE MADE THEREOF

Abstract: The present invention provides a resin composition excellent in strength, impact resistance, heat resistance and moldability and further, of low environmental load capable of decreasing CO₂ exhaustion in its production. The present invention is a resin composition comprising a styrene-based resin (A), an aliphatic **polyester** (B) and at least one species selected from a compatibilizer (C) and a dicarboxylic anhydride (D), and the compatibilizer is preferably at least one species described below. (C-1) methyl methacrylate **polymer** (C-2) a vinyl-based **polymer** to which epoxy unit or acid anhydride unit is copolymerized (C-3) a graft **polymer** in which methyl methacrylate unit is grafted to a rubbery **polymer** (C-4) a block copolymer in which polylactide segment and a vinyl-based **polymer** segment

Classifications:

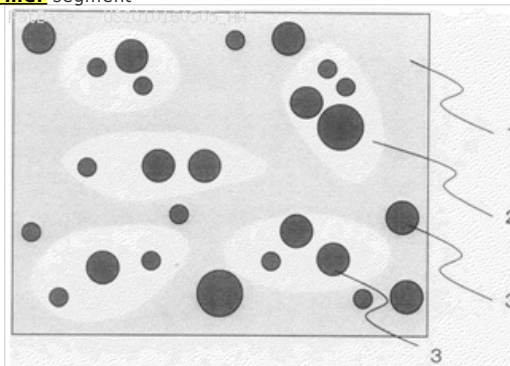
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Probable Assignee: TORAY IND INC

Assignee(s): (std): TORAY IND ; OHME HIROYUKI ; TORAY INDUSTRIES ; TAMAI AKIYOSHI ; KUMAZAWA SADANORI ; MOCHIZUKI KATSUHIKO ; ONOUE YOSUKE ; AIR TONY CO LTD ; KANOMATA AKINORI ; KATO YASUTAKA ; KOBAYASHI SADAYUKI ; YAMAUCHI KOJI

Assignee(s): TORAY INDUSTRIES INC JP ; TORAY IND INC ; TORAY INDUSTRIES INC

Inventor(s): (std): KATO YASUTAKA ; YOSUKE ONOUE ; YASUTAKA KATO ; YAMAUCHI KOJI ; TAMAI AKIYOSHI ;

SADAYUKI KOBAYASHI ; SADANORI KUMAZAWA ; OOME HIROKAZU ; ONOE YOSUKE ; OME HIROCHI ; OHME HIROYUKI ; KUMAZAWA SADANORI ; KOJI YAMAUCHI ; KOBAYASHI SADAYUKI ; KATSUHIKO MOCHIZUKI ; KANOMATA AKINORI ; HIROYUKI OHME ; AKIYOSHI TAMAI ; AKINORI KANOMATA ; ONOUE YOSUKE ; MOCHIZUKI KATSUHIKO

Inventor(s): KUMAZAWA SADANORI NAGOYA SHI ; KOBAYASHI SADAYUKI NAGOYA SHI ; OHME HIROYUKI MIDORI KU NAGOYA SHI ; KANOMATA AKINORI NAGOYA SHI ; YAMAUCHI KOJI NAGOYA SHI ; TAMAI AKIYOSHI NAGOYA SHI ; KANOMATA AKINORI AND

Agent(s): LEINWEBER AND ZIMMERMANN; WEBSTER JEREMY MARK ET AL; WEBSTER JEREMY MARK; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

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

Title: COMPOSITIONS AND METHODS FOR TREATING DIVERTICULAR DISEASE

Abstract: Agents, compositions, and implants are provided herein for treating diverticular disease (e.g., diverticulosis and diverticulitis). In particular, fibrosis-inducing agents, hemostatic agents, and/or anti-infective agents, or compositions containing one or more of these agents are provided for use in methods for treating diverticular disease.

Classifications:

International (IPC 8-9): A61B17/11 A61B17/12 A61C5/00 A61F13/00

A61F2/00 A61F2/28 A61K31/045 A61K31/4745 A61K31/513

A61K31/525 A61K31/65 A61K31/70 A61K31/7012 A61K31/704

A61K31/7048 A61K31/7072 A61K31/765 A61K33/14 A61K33/24

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A61K38/24 A61K38/39 A61K38/48 A61K49/00 A61L27/00 A61L27/54

A61L31/00 A61L31/16 C12P21/02 (Advanced/Invention);

A61B17/68 (Advanced/Non-invention);

A61B17/03 A61B17/12 A61C5/00 A61F13/00 A61F2/00 A61F2/28

A61K31/045 A61K31/4738 A61K31/513 A61K31/519 A61K31/65

A61K31/70 A61K31/7012 A61K31/7028 A61K31/7042 A61K31/74

A61K33/14 A61K33/24 A61K38/00 A61K38/17 A61K38/18 A61K38/19 A61K38/20 A61K38/24 A61K38/39 A61K38/43

A61K49/00 A61L27/00 A61L31/00 A61L31/14 C12P21/02 (Core/Invention);

A61B17/68 (Core/Non-invention)

International (IPC 1-7): A61K38/39

CPC: A61L2430/38 A61L27/54 A61B17/11 A61B17/12022 A61B17/12099 A61B17/12109 A61B17/1214 A61B17/12168

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A61L31/16 A61L2300/00 A61L2300/412

European: A61B17/11 A61B17/12P A61B17/12P5 A61B17/12P5B A61B17/12P7C A61B17/12P7W A61B17/12P7Z1

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K61F250/00W5 K61L300/00 K61L300/412

US: 424/85.1 424/85.100P 435/69.5 514/11.3 514/13.2 514/13.6 514/2 514/2.3 530/353

Family:

Publication number	Publication date	Application number	Application date
US2005277577 AA	20051215	US20050129763	20050512
US7241736 BB	20070710	US20050129763	20050512

Priority:

US20030518785P 20031110	US20030523908P 20031120	US20030524023P 20031120
US20040578471P 20040609	US20040586861P 20040709	US20040986230 20041110
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Probable Assignee: ANGIOTECH INT AG

Assignee(s): (std): ANGIOTECH INT AG

Assignee(s): ANGIOTECH INTERNATIONAL AG ; ANGIOTECH INT

Inventor(s): (std): AVELAR RUI ; GRAVETT DAVID M ; GUAN DECHI ; HUNTER WILLIAM L ; TOLEIKIS PHILIP M

Inventor(s): TOLEIKIS PHILIP ; HUNTER WILLIAM ; GRAVETT DAVID

Agent(s): SEED INTELLECTUAL PROPERTY LAW GROUP PLLC ; SEED IP LAW GROUP PLLC

PatBase - US2005277577_RR



Title: FIBER REINFORCED POLYPROPYLENE COMPOSITE HEADLINER SUBSTRATE PANEL

Abstract: A fiber reinforced polypropylene composite headliner substrate panel. The headliner substrate panel is molded from a composition comprising at least 30 wt percent polypropylene based resin, from 10 to 60 wt percent organic fiber and from 0 to 40 wt percent inorganic filler, based on the total weight of the composition, the headliner substrate panel having an outer surface and an underside surface. A process for producing a headliner substrate panel for a vehicle is also provided. The process includes the step of molding a composition to form the composite headliner substrate panel, the headliner substrate panel having at least an outer surface and an underside surface, wherein the composition comprises at least 30 wt percent polypropylene, from 10 to 60 wt percent organic fiber and from 0 to 40 wt percent inorganic filler, based on the total weight of the composition.

Classifications:

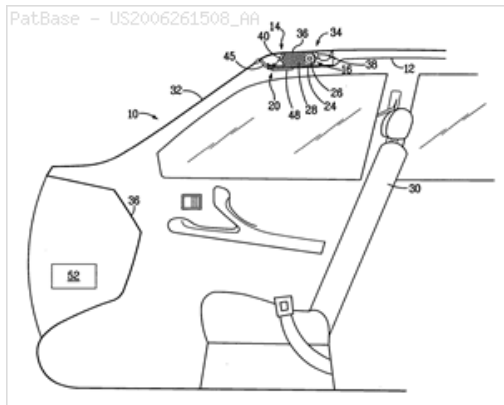
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International (IPC 1-7): C08J5/04 C08L23/10

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**Family:**

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Priority:

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Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXNONMOBIL RES AND ENGINEERIN ; BORMANN PATRICK ; EXXONMOBIL CHEM PATENTS INC ; LUSTIGER ARNOLD ; MATUSZEK WALTER T ; MATUSZEK WALTER ; MACHADO AUGIE ; EXXONMOBIL RES AND ENG CO ; LUSTIGER AMOLD ; OSHINSKI ALAN J ; VALENTAGE JEFFREY ; VALLENTAGE JEFFREY ; STARZ DAVID JON ; WARD JENNIFER HARTING ; WARD JENNIFER H ; EXXONMOBIL RESEARCH AND ENGINEERING CORP ; EXXONMOBIL RES AND ANGINEERING CO

Assignee(s): EXXONMOBIL RESEARCH AND ANGINEERING CO ; EXXONMOBIL CHEMICAL PATENTS INC ; EXXONMOBIL CHEMICAL PATENT INC ; EXXONMOBIL RESEARCH AND ENGINEERING CO ; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY ; ENGINEERING CO ; EXXNONMOBIL RESEARCH AND ENGINEERING CO ; EXXNONMOBIL RESEARCH AND ENGINEERING COMPANY ; EXXON MOBIL CORP

Inventor(s): (std): ARNOLD LUSTIGER ; JEFFREY VALENTAGE ; JEFFREY VALLENTAGE ; LUSTIGER AMOLD ; LUSTIGER ARNOLD ; MACHADO AUGIE ; MATUSZEK WALTER ; MATUSZEK WALTER T ; VALENTAGE JEFFREY ; VALLENTAGE JEFFREY ; WARD JENNIFER H ; WARD JENNIFER HARTING ; WALTER MATUSZEK ; STARZ DAVID JON ; OSHINSKI ALAN J ; BORMANN PATRICK

Inventor(s): WALTER T MATUSZEK

Agent(s): BORDEN LADNER GERVAIS LLP; GERSTBERGER GISELA ET AL; GERSTBERGER GISELA; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY; EXXONMOBIL RESEARCH AND ENGINEERING CO; EXXONMOBILE RESEARCH AND ENGINEERING COMPANY; EXXONMOBILE RESEARCH AND ENGINEERING CO; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; MIGLIORINI ROBERT A; ROBERT A; CATHERINE L; DARRYL M; KRISTINA M; MIGLIORINI ROBERT A ET AL; BAKUN ESTELLE C 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: COMPOSITIONS AND METHODS FOR TREATING DIVERTICULAR DISEASE

Abstract: Agents, compositions, and implants are provided herein for treating diverticular disease (e.g., diverticulosis and diverticulitis). In particular, fibrosis-inducing agents, hemostatic agents, and/or anti-infective agents, or compositions containing one or more of these agents are provided for use in methods for treating diverticular disease.

Classifications:

International (IPC 8-9): A61B17/11 A61B17/12 A61C5/00 A61F13/00 A61F2/00 A61F2/28 A61K31/045 A61K31/4745 A61K31/513 A61K31/525 A61K31/65 A61K31/70 A61K31/7012 A61K31/704 A61K31/7048 A61K31/7072 A61K31/765 A61K33/14 A61K33/24 A61K38/17 A61K38/18 A61K38/19 A61K38/20 A61K38/24 A61K38/39 A61K38/48 A61K49/00 A61L27/00 A61L27/54 A61L31/00 A61L31/16 A61P1/00 (Advanced/Invention); A61B17/68 (Advanced/Non-invention); A61K38/39 A61P1/00 (Core/Invention)

CPC: A61L2430/38 A61L27/54 A61B17/11 A61B17/12022

A61B17/12099 A61B17/12109 A61B17/1214 A61B17/12168

A61B17/12186 A61B17/1219 A61B17/68 A61F2250/0067

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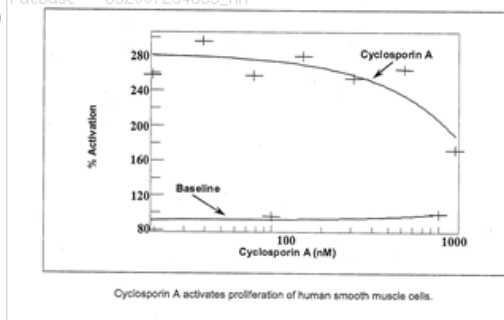
European: A61B17/11 A61B17/12P A61B17/12P5 A61B17/12P5B

A61B17/12P7C A61B17/12P7W A61B17/12P7Z1 A61B17/12P7Z3

A61K38/36A A61K38/38 A61K38/39 A61K38/48K5 A61K45/06 A61L27/54 A61L31/16 K61B17/68 K61F250/00W5 K61L300/00 K61L300/412

US: 514/1.1 514/1.100P 514/2 514/21.2 514/21.200S

PatBase - US2007254833_AA



Family:

Publication number	Publication date	Application number	Application date
US2007254833 AA	20071101	US20070775816	20070710

Priority:

US20030518785P 20031110	US20030523908P 20031120	US20030524023P 20031120
US20040578471P 20040609	US20040586861P 20040709	US20040986230 20041110
US20050129763 20050512	US20070775816 20070710	

Probable Assignee: ANGIOTECH INT AG

Assignee(s): (std): ANGIOTECH INT AG

Assignee(s): ANGIOTECH INTERNATIONAL AG

Inventor(s): (std): AVELAR RUI ; GRAVETT DAVID M ; GUAN DECHI ; HUNTER WILLIAM L ; TOLEIKIS PHILIP M

Inventor(s): TOLEIKIS PHILIP ; HUNTER WILLIAM ; GRAVETT DAVID

Agent(s): BRIAN R WOODWORTH

Title: PROCESS OF FORMING A NANOFIBER NON-WOVEN CONTAINING PARTICLES

Abstract: A process for forming a nanofiber non-woven includes mixing a first and second thermoplastic **polymer** and a plurality of particles, then subjecting the mixture to elongational forces when the first and second **polymers** are in a softened condition forming nanofibers of the first **polymer**. Next, the mixture is brought to a condition where the temperature is below the softening temperature of the first **polymer** forming a first intermediate. The first intermediate is consolidated forming the second intermediate where at least 70 percent of the nanofibers are fused to other nanofibers. Next, at least a portion of the second **polymer** is removed and at least 50 percent of the particles are positioned adjacent a surface of the nanofibers.

Classifications:

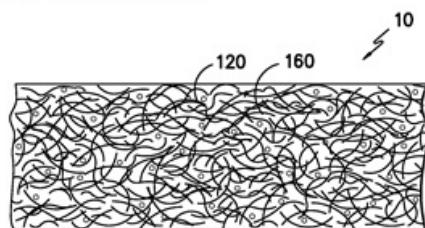
International (IPC 8-9): B29C47/88 B29C51/04 B32B3/02 B32B5/02 B32B5/26 B82Y30/00 D01D5/06 D01D5/08 D01D5/40 D01F1/02 D01F6/44 D01F6/88 D04H1/413 D04H1/4382 D04H1/4391 D04H1/541 D04H1/544 D04H1/549 D04H1/55 D04H13/00 D04H3/005 D04H3/016 D04H3/018 D04H3/147 (Advanced/Invention); B29C47/00 B82Y30/00 (Advanced/Non-invention)

CPC: D04H1/413 B29C47/0004 B29C47/0014 D01D5/082 D04H1/541 D04H1/544 D04H1/549 D04H1/55 D04H3/005 Y10T428/23914 B32B5/022 Y10T442/69 Y10T442/641 Y10T442/622 Y10T442/619 Y10T442/614 B32B5/26 B29K2913/00 B29K2313/00 B29C47/065 B82Y30/00 D04H1/64 D04H1/559 D04H3/018 D04H3/016 D04H1/4391 D01F6/88 D01F6/44 D01D5/40 D04H1/4382 B29C47/0011 B29C47/8895

European: B29C47/00J2 B29C47/06P B32B5/02A B82Y30/00 D01D5/40 D01F6/44 D01F6/88 D04H1/4382 L29C47/00B L29C47/00J2 L29K313/00 L29K913/00

US: 264/103 264/164 264/164P 264/210.1 264/210.8 264/210.800S 264/211 264/211.12 264/211.120S 264/211.16 264/211.19 428/86 428/86P 442/340 442/344 442/344P 442/347 442/347S 442/364 442/364S 442/409 977/762 977/762S 977/900 977/900S

PatBase - US2012074612_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2012074612 AA	20120329	US20100893041	20100929
US2012076972 AA	20120329	US20100893035	20100929
US2012077404 AA	20120329	US20100893010	20100929
US8795561 BB	20140805	US20100893041	20100929
US8889572 BB	20141118	US20100893010	20100929
WO12044382 A1	20120405	WO2011US41432	20110622

Priority:

US20100893010 20100929 US20100893021 20100929 US20100893041 20100929
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Probable Assignee: MILLIKEN AND CO

Assignee(s): (std): MILLIKEN AND CO ; ZHOU HAO ; SCRIVENS WALTER A

Assignee(s): MILLIKEN AND COMPANY

Inventor(s): (std): SCRIVENS WALTER A ; ZHOU HAO

Agent(s): CHERYL J; BRICKEY CHERYL J

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: REVERSIBLE, HEAT-SET, ELASTIC FIBERS, AND METHOD OF MAKING AND ARTICLES MADE FROM SAME

Abstract: A reversible, heat-set covered fiber is described, the covered fiber comprising: A. A core comprising an elastic fiber comprising a substantially crosslinked, temperature-stable, olefin **polymer**, and B. A cover comprising an inelastic fiber. The fiber is heat set by a method comprising: (a) Stretching the covered fiber by applying a stretching force to the covered fiber; (b) Heating the stretched covered fiber of (a) to a temperature in excess of the crystalline melting point of the olefin **polymer** for a period of time sufficient to at least partially melt the olefin **polymer**; (c) Cooling the stretched and heated covered fiber of (b) to a temperature below the crystalline melting point of the olefin **polymer** for a period of time sufficient to solidify the **polymer**; and (d) Removing the stretching force from the covered fiber.

Classifications:

International (IPC 8-9): B29C41/00 B29C45/14 C08F10/02

C08G71/04 D01F6/30 D01F6/70 D02G3/04 D02G3/32 D02G3/36 D02G3/38 D02J1/22 D03D15/00 D03D15/08 D04B1/16 D04H1/42 D04H13/00 D04H3/00 D06C23/04 D06C3/00 D06P3/00 D06P3/79 D06P3/82 D06P5/20 (Advanced/Invention);

D01F6/30 D01F6/70 D02G3/32 D03D15/04 D04H1/00 D06B1/02 (Advanced/Non-invention);

D01F6/28 D01F6/58 D02G3/04 D02G3/22 D02G3/36 D02J1/22 D03D15/00 D03D15/08 D04H1/42 D04H13/00 D06C23/00 D06P3/00 D06P3/82 D06P5/20 (Core/Invention);

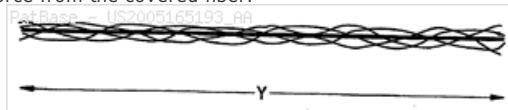
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International (IPC 1-7): C08F10/02 C08F110/02 C08G71/04 D01F6/30 D01F6/70 D02G3/04 D02G3/32 D02G3/36 D02J1/22 D03D15/00 D03D15/08 D04H1/42 D04H3/00 D06C23/04 D06P3/00 D06P3/82 D06P5/20

CPC: Y10T442/601 D02G3/328 D10B2321/02 D10B2321/021 D10B2321/022 D10B2501/00 D04H1/4291 D04H1/4358 D02J1/22 D03D15/00 D03D15/0027 D03D15/08 D03D15/12 D04B1/16 D10B2201/02 D10B2201/06 D10B2211/02 D10B2211/04 D10B2331/02 D10B2331/04 D10B2401/041 D10B2401/061 D10B2401/14 D10B2505/08 D10B2509/00 D01F6/30 D01F6/70 D02G3/32

European: D01F6/30 D01F6/70 D02G3/32 D02G3/32E D02J1/22 D03D15/00 D03D15/00E D03D15/08 D04B1/16 D04H13/00B2 N10B201/02 N10B201/06 N10B211/02 N10B211/04 N10B321/02 N10B321/021 N10B321/022 N10B331/02 N10B331/04 N10B401/041 N10B401/061 N10B401/14 N10B501/00 N10B505/08 N10B509/00

US: 264/172.11 264/230 264/235.6 264/235.600S 28/156 28/172.2 442/328 526/352 526/352P 8/149.2



Family:

Publication number	Publication date	Application number	Application date
AT360108 E	20070515	AT20030711538T	20030311
AT430213 E	20090515	AT20030007366T	20030311
AU2003213844 AA	20030929	AU20030213844	20030311
AU2003213844 BB	20081002	AU20030213844	20030311
BRPI0308532 A	20050201	BR2003PI08532	20030311
BRPI0308532 A8	20180206	BR2003PI08532	20030311
BRPI0308532 B1	20151013	BR2003PI08532	20030311
CA2478694 AA	20040909	CA20032478694	20030311
CN100378259 C	20080402	CN20038010048	20030311
CN1671895 A	20050921	CN20038010048	20030311
DE60313305 D1	20070531	DE20036013305	20030311
DE60313305 T2	20071227	DE20036013305T	20030311
DE60327478 D1	20090610	DE20036027478	20030311
EP1485527 A1	20041215	EP20030711538	20030311
EP1485527 B1	20070418	EP20030711538	20030311
EP1860214 A1	20071128	EP20070007366	20030311
EP1860214 B1	20090429	EP20070007366	20030311
ES2281630 T3	20071001	ES20030711538T	20030311
ES2322625 T3	20090623	ES20070007366T	20030311
IL163971 A0	20051218	IL20030163971	20030311
JP2005520066 T2	20050707	JP20030576690T	20030311
JP2009287164 A2	20091210	JP20090213384	20090915
JP2010059597 A2	20100318	JP20090213405	20090915
JP4400915 B2	20100120	JP20030576690T	20030311
JP4824802 B2	20111130	JP20090213384	20090915
JP4824803 B2	20111130	JP20090213405	20090915
KR20040089730 A	20041021	KR20047014263	20030311
MXPA04008844 A1	20041213	MX2004PA08844	20030311
TW200304917 A	20031016	TW20030105252	20030311
TWI336334 B	20110121	TW20030105252	20030311
US2005165193 AA	20050728	US20030507230	20030311
US7955539 BB	20110607	US20030507230	20030311
WO03078705 A1	20030925	WO2003US07591	20030311

Priority:

US20020363117P 20020311 EP20030711538 20030311 JP20030576690 20030311
 US20030507230 20030311 WO2003US07591 20030311 US20040507230 20040909

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): BATISTINI ANTONIO ; BENSASON SELIM ; DOW GLOBAL TECHNOLOGIES INC ; HO THOI H ; DOW GLOBAL TECHNOLOGIES LLC ; PATEL RAJEN M ; REID RONA L

Assignee(s): RONA L REID ; SELIM BENSASON ; RAJEN M PATEL ; ANTONIO BATISTINI ; DOW EUROPE GMBH ; DOW CHEMICAL CO ; H HO THOI

Inventor(s): (std): ANTONIO BATISTINI ; RAJEN M PATEL ; RONA L REID ; THOI H HO ; SELIM BENSASON ; REID RONA L ; PATEL RAJEN M ; HO THOI H ; BENSASON SELIM ; BATISTINI ANTONIO

Inventor(s): H HO THOI ; REID RONA ; HO THOI ; PATEL RAJEN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; CHUNG HSU MIN; THE DOW CHEMICAL COMPANY; INTELLECTUAL PROPERTY SECTION; DOW CHEMICAL CO INTELLECTUAL PROPERTY SECTION

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 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 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 US UZ YU ZA ZM ZW

Title: **POLYESTER** FIBER AND METHOD FOR ITS PRODUCTION, AND TIRE CORD, TIRE, BELT-REINFORCING FIBER MATERIAL AND BELT COMPRISING THE **POLYESTER** FIBER

Abstract: There is provided a **polyester** fiber which has few defects such as voids due to catalyst particles, and low variation in physical properties and minimal fluff generation. The **polyester** fiber of the invention comprises laminar nanoparticles composed of a divalent metal and a phosphorus compound and having side lengths of 5-100 nm and an interlayer spacing of 1-5 nm. There are also provided a tire cord, tire, belt-reinforcing fiber material and belt, comprising the **polyester** fiber.

Classifications:

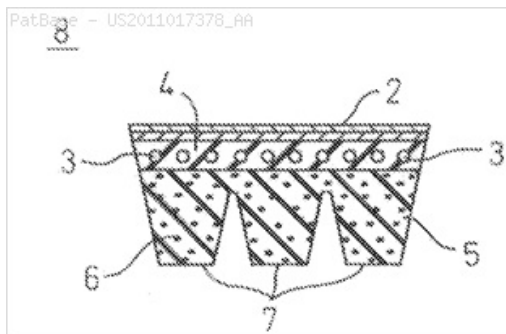
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D01F1/10 D01F6/62 D01F6/66 D01F6/92 D02G3/02 D02G3/44
D02G3/48 D03D1/00 D03D15/00 (Advanced/Invention);
D01D5/08 D01F1/10 D01F6/92 D02G3/48 (Advanced/Non-invention);
B60C9/00 C08K5/00 C08L67/00 D01F6/92 D02G3/02 D02G3/48
D03D1/00 D03D15/00 (Core/Invention);
B60C1/00 C08K3/08 C08K5/49 D01D5/08 D01F6/66 (Core/Non-invention)

International (IPC 1-7): B60C9/00 D01F6/92

CPC: Y10T152/10495 Y10T152/10513 Y10T152/10855 Y10T428/2927
D01F6/62 B60C9/0042 C08K5/098 C08K5/5317 D02G3/447
D02G3/48 D03D15/00 D10B2331/04 D10B2401/063 D10B2505/022
Y10T428/249922 Y10T428/249924 Y10T428/249933 Y10T428/24994
Y10T442/3065 Y02T10/862 D01F1/10

European: B60C9/00F D01F1/10 D01F6/62 D02G3/44G D02G3/48
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US: 152/450 152/458 152/527 152/548 264/176.1 264/176.100S 428/222 428/222S 428/292.1 428/292.100S 428/295.1
428/295.100S 428/297.4 428/297.400S 428/372 428/372S 442/189 442/189S 524/132 524/135 524/439 524/440 525/255



Family:

Publication number	Publication date	Application number	Application date
AT550462 E	20120415	AT20100731312T	20100112
CN101946032 A	20110112	CN201080001101	20100112
CN101946032 B	20130320	CN201080001101	20100112
DE602010001151 D1	20120516	DE201060001151T	20100112
EP2261403 A1	20101215	EP20100731312	20100112
EP2261403 A4	20110323	EP20100731312	20100112
EP2261403 B1	20120321	EP20100731312	20100112
JP2011058103 A2	20110324	JP20090205900	20090907
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JP4634526 B1	20110223	JP20100005869	20100114
JP4897020 B2	20120314	JP20090205900	20090907
JP4897021 B2	20120314	JP20090205901	20090907
KR101238983 B1	20130304	KR20107018016	20100112
KR20100118114 A	20101104	KR20107018016	20100112
TH118151 A	20121130	TH20101001439	20100112
TW201037109 A	20101016	TW20100101090	20100115
TWI490381 B	20150701	TW20100101090	20100115
US2011017378 AA	20110127	US20100933388	20100112
US8476372 BB	20130702	US20100933388	20100112
WO10082643 A1	20100722	WO2010JP50456	20100112

Priority:

JP20090007581 20090116 JP20090204818 20090904 JP20090205900 20090907
JP20090205901 20090907 EP20100731312 20100112 WO2010JP50456 20100112
JP20100005869 20100114

Probable Assignee: TEIJIN FIBERS LTD

Assignee(s): (std): ITO SEIJI ; SHIMADA SHINTARO ; TOGASAKI JUNICHI ; TEIJIN FIBERS LTD ; TERASAKA FUYUKI

Assignee(s): TEIJIN FIBERS LTD OSAKA SHI ; TEIJIN FRONTIER CO LTD ; TEIJIN FIBERS LIMITED ; TEIJIN FIBERS LIMITEDJP

Inventor(s): (std): JUNICHI TOGASAKI ; SEIJI ITO ; SHIMADA SHINTARO ; FUYUKI TERASAKA ; ITO SEIJI ; SHINTARO SHIMADA ; TERASAKA FUYUKI ; TOGASAKI JUNICHI

Agent(s): HOEGER STELLRECHT AND PARTNER PATENTANWALTE; HALLYBONE HUW GEORGE; SUGHRUE MION PLLC; AOKI ATSUSHI 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 KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **POLYMER** FIBER CONTAINING FLAME RETARDANT, PROCESS FOR PRODUCING THE SAME, AND MATERIAL CONTAINING SUCH FIBERS

Abstract: The present invention provides a **polymer** fiber containing a flame retardant. In particular, the invention provides a fiber containing poly(trimethylene terephthalate) and a flame retardant that melts at a temperature of equal to or below 280 degrees centigrade. The present invention also provides a process for producing such a fiber, and a material incorporating such fibers.

Classifications:

International (IPC 8-9): A47G27/02 B29C47/00 C07F9/30 C08K5/5313 C08L67/00 C08L67/02 C08L77/00 D01F1/07 D01F1/10 D01F11/08 D01F6/62 D01F6/92 D05C17/02 (Advanced/Invention); A47G27/00 C07F9/00 C08K5/00 C08L67/00 D01F1/10 D01F6/62 D01F6/92 (Core/Invention)

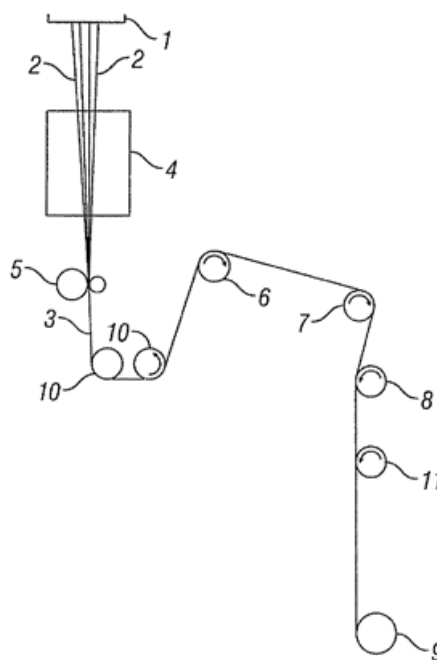
International (IPC 1-7): C07F9/30

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European: C07F9/30A1 C08J3/22L C08L67/02 D01F1/07 D01F6/62 D01F6/92 M08J367/02 M08J467/00 M08K5/5313 M08L67/00 M08L77/00

US: 264/176.1 264/176.100S 428/221 428/221S 428/85 428/85P 524/133 524/133S

PatBase - US2012141723_AA



Family:

Publication number	Publication date	Application number	Application date
AU2007319273 AA	20080522	AU20070319273	20071113
CA2669149 AA	20090511	CA20072669149	20071113
CN101583619 A	20091118	CN200780048029	20071113
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KR20090083930 A	20090804	KR20097012423	20071113
TW200844281 A	20081116	TW20070142185	20071108
US2012141723 AA	20120607	US20070939437	20071113
WO08061087 A1	20080522	WO2007US84525	20071113

Priority:

US20060865990P 20061115 US20070939437 20071113 WO2007US84525 20071113

Probable Assignee: SHELL OIL CO

Assignee(s): (std): CHUAH HOE HIN ; DANGAYACH KAILASH ; RAMACHANDRAN VENKATARATNAM ; SHELL INT RESEARCH ; SHELL OIL CO

Assignee(s): SHELL INT RESEARCH MIJ BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V ; SHELL OIL COMPANY

Inventor(s): (std): KAILASH DANGAYACH ; RAMACHANDRAN VEKATARATNAM ; VENKATARATNAM RAMACHANDRAN ; RAMACHANDRAN VENKATARATNAM ; DANGAYACH KAILASH ; CHUAH HOE HIN ; HIN CHUAH HOE

Inventor(s): HOE HIN CHUAH

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OGILVY RENAULT LLP SENCRL SRL; MATTHEZING ROBERT MAARTEN; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; TAYLOR RICHARD B

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: CRIMPED YARN, METHOD FOR MANUFACTURE THEREOF, AND FIBER STRUCTURE

Abstract: A crimped yarn includes a synthetic fiber which contains an aliphatic **polyester** resin (A) and a thermoplastic polyamide resin (B) and exposed area ratio of the aliphatic **polyester** resin (A) with respect to fiber surface area is 5 percent or less and a crimp is imparted to a multifilament comprising said synthetic fiber, and a fiber structure containing said crimped yarn as at least a part thereof. Furthermore, a crimped yarn in which the aliphatic **polyester** resin (A) and the thermoplastic polyamide resin (B) are constituted of a **polymer** alloy type synthetic fiber, or a crimped yarn constituted by a sheath/core type composite fiber in which the core component comprises the aliphatic **polyester** resin (A) or a **polymer** alloy of the aliphatic **polyester** resin (A) and the thermoplastic polyamide resin (B) and the sheath component comprises the thermoplastic polyamide resin (B), and a fiber structure containing said crimped yarn as at least a part thereof.

Classifications:

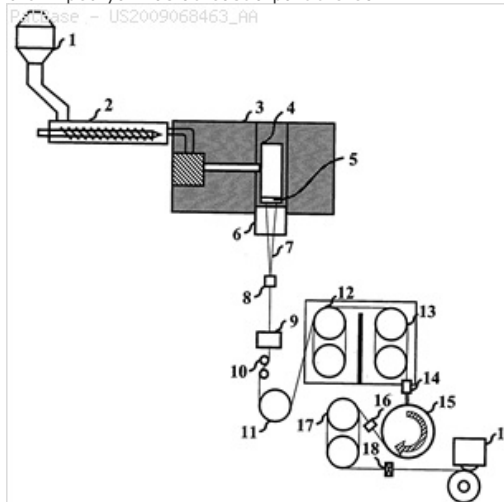
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D01D5/34 D01F6/62 D01F6/92 D01F8/14 D02G1/00 (Advanced/Non-invention);
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D03D15/08 (Core/Invention);
D01D5/34 (Core/Non-invention)

International (ipc 1-7): D01F6/92

CPC: Y10T428/2924 D01F8/12 D01F8/14 D02G1/0266 D02G1/12
D02G1/16 D02G1/161 D02G1/20 D02J1/22 D01D5/36 D01F6/62
D01F6/92 D02J1/224 D02J1/228

European: D01F8/12 D01F8/14 D02G1/02B9 D02G1/12 D02G1/16
D02G1/16B D02G1/20 D02J1/22

US: 264/168 428/370

**Family:**

Publication number	Publication date	Application number	Application date
CA2625343 AA	20080408	CA20062625343	20061018
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Priority:

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Assignee(s): (std): TORAY IND ; MATSUMURA KAZUYA ; TORAY INDUSTRIES ; SHINOZAKI ATSUSHI ; NARITA SYUSAKU ; MOCHIDUKI KATSUHIKO ; MOCHIZUKI KATSUHIKO ; FUKUDOME KOUSUKE ; INOUE SHOZO ; KAJIYAMA HIROSHI ; KIMURA TOSHIKI

Assignee(s): TORAY IND INC ; TORAY INDUSTRIES INC

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Inventor(s): SHINOZAKI ATSUSHI OHOKURIKU BRANCH TORAY IND INC ; SHINOZAKI ATSUSHI C OHOKURIKU BRANCH TORAY... ; NARITA SYUSAKU SETA PLANT TORAY IND INC OTSU SHI ; NARITA SYUSAKU SETA PLANT TORAY INDUSTRIES INC ; MOCHIZUKI KATSUHIKO C O MISHIMA PLANT TORAY IND INC ; MOCHIZUKI KATSUHIKO C O MISHIMA PLANT TORAY... ; MATSUMURA KAZUYAC O OSAKA HEAD OFFICE TORAY IND INC OSAKA SHI ; MATSUMURA KAZUYA C O OSAKA HEAD OFFICE TORAY... ; KIMURA TOSHIKI C O OKAZAKI PLANT TORAY IND INC ; KIMURA TOSHIKI C O OKAZAKI PLANT TORAY... ; KAJIYAMA HIROSHI C O SETA PLANT TORAY IND INC ; KAJIYAMA HIROSHI C O SETA PLANT TORAY... ; INOUE SHOZO C O OKAZAKI PLANT TORAY INDUSTRIES INC ; INOUE SHOZO C O OKAZAKI PLANT TORAY IND INC OKAZAKI SHI ; FUKUDOME KOUSUKE C O MISHIMA PLANT TORAY IND INC ; FUKUDOME KOUSUKE C O MISHIMA PLANT TORAY...

Agent(s): SMART AND BIGGAR; LEINWEBER AND ZIMMERMANN; WEBSTER JEREMY MARK ET AL; WEBSTER JEREMY MARK; IP GROUP OF DLA PIPER US 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 GT HW HN HR HU ID IE IL IN IS IT 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

Title: PIPE SECTION HAVING BONDED COMPOSITE BARRIER LAYER

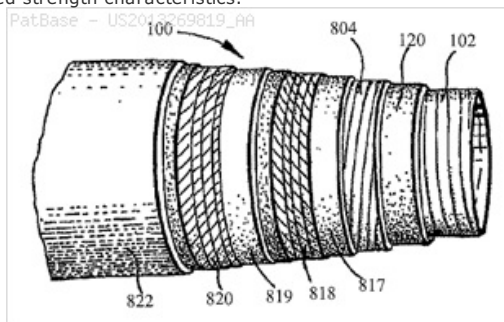
Abstract: Pipe sections and methods for forming pipe sections are disclosed. A pipe section includes a hollow body formed from a metal material, the hollow body having an inner surface and an outer surface, the inner surface defining an interior. The pipe section further includes a barrier layer surrounding and bonded to the hollow body, the barrier layer having an inner surface and an outer surface. The barrier layer is formed from a continuous fiber reinforced thermoplastic material. Such pipe sections may be lightweight and flexible while exhibiting improved strength characteristics.

Classifications:

International (IPC 8-9): B29B7/38 B29B7/48 B29B7/88 B29B9/06 B29C47/00 B29C47/06 B29C47/10 B29C47/20 B29C47/78 B29C47/80 B29C47/82 B29C47/88 B29C47/92 B29C49/00 B32B1/08 B32B15/08 B32B25/08 B32B25/14 B32B25/16 B32B27/00 B32B27/08 B32B27/12 B32B27/18 B32B27/20 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B32B5/02 B32B5/14 B32B5/28 B32B7/12 B60K15/03 B60K15/031 B60K15/03177 B60K15/04 B65D1/02 B65D25/14 B65D30/08 C08G59/14 C08J3/20 C08J5/00 C08J5/04 C08K7/02 C08L101/00 C08L101/02 C08L23/04 C08L23/26 C08L33/06 C08L33/068 C08L63/00 C08L81/02 C08L81/04 C08L85/00 E21B17/01 F16L11/00 F16L11/04 F16L11/08 F16L11/10 F16L11/12 F16L57/04 F16L57/06 F16L58/04 F16L9/12 F16L9/133 F16L9/14 F16L9/147 F27B14/00 (Advanced/Invention); F16L11/04 F16L11/08 (Advanced/Non-invention)

CPC: B60K15/03177 F16L11/04 B32B27/08 B29C47/0023 F16L9/147 F27B14/00 F16L11/00 F16L58/04 F16L57/06 F16L57/04 Y10T428/1397 Y10T428/2958 B29C47/06 B29C47/807 B29C47/827 B29C47/92 B29C2947/92514 B29C2947/92704 B29C2947/92876 C08L2201/02 C08L2201/08 C08L2203/18 Y10T428/1352 B29C47/0016 C08L2205/025 C08L33/068 B29C47/0004 B29C47/1018 B65D1/0215 B65D25/14 B65D31/04 C08L2203/202 C08L2203/10 C08L2203/12 B32B2307/7265 B29K2081/04 B29C47/0026 B29C47/065 B32B2307/54 B32B2307/536 B29K2105/0005 B29K2995/0016 B29K2995/0077 B29K2995/0082 B29K2995/0089 B29L2031/30 B29C47/8805 F16L9/133 B29C47/0054 B60K15/04 C08L2205/06 C08L2207/04 B32B2307/7242 B32B2439/40 B32B2605/08 B60K2015/03039 B60K2015/0458 F16L11/083 B32B5/022 B32B5/024 B32B5/026 B32B5/142 B32B7/12 B32B15/08 B32B25/08 B32B25/14 B32B25/16 B32B27/12 B32B27/18 B32B27/20 B32B27/286 B32B27/304 B32B27/32 B32B27/34 B32B2262/0269 B32B2270/00 B32B2274/00 B32B2307/306 B32B2307/3065 B32B2307/50 B32B2307/546 B32B2307/558 B32B2597/00 B32B2605/00 F16L11/085 F16L2011/047 C08L81/02 C08L81/04 B32B1/08 C08L63/00 Y10T428/139 Y10T428/1393 B29B15/122 B60K15/03

US: 1/1 138/137 138/140 138/141 138/144 138/150 138/153 156/172 156/187 264/171.26 264/209.6 264/41 264/500 428/35.5 428/35.7 428/36.9 428/36.91 428/36.92 428/389 432/13 521/134 521/135 523/400 524/502 525/189



Family:

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Priority:

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Inventor(s): ZHAO XINYU CINCINNATI ; RUBY MICHAEL A CINCINNATI ; MCGRADY CHRISTOPHER FLORENCE ; GRENCI JOSEPH J FLORENCE ; LUO RONG FLORENCE ; EASTEP DAVID W WINONA

Agent(s): PATENTANWAELTE ISENBRUCK BOESL HOERSCHLER LLP; LAHRTZ FRITZ; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; MATSUYAMA MINAKO; KOBAYASHI YASUSHI; MIYAMAE TORU; NAKANISHI MOTOHARU; KAJITA TSUYOSHI; DORITY AND MANNING PA; JOHNSTON JASON W ET AL

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

Title: ELASTOMER FIBERS AND METHODS OF MAKING AND USING THEREOF

Abstract: The invention relates to a fiber excellent in cool contact feeling which is excellent in hand and skin touch and capable of preventing unpleasant feeling in the wet state while also having excellent elasticity. The invention also relates to fabric, clothing, and underwear excellent in cool contact feeling and obtainable by using said fiber as well as the methods of making the fibers and articles thereof.

Classifications:

International (IPC 8-9): A41B17/00 A41D13/00 A41D13/005 A41D31/00 D01D5/08 D01F6/70 D01F6/82 D01F6/92 D01F6/94 D01F8/14 D03D15/08 D04H1/00 (Advanced/Invention); D01F6/70 D01F6/82 D01F8/14 (Core/Invention)

International (IPC 1-7): D01F6/70 D01F6/82 D01F8/14

CPC: D01F8/16 D01D5/08 Y10T428/249921 A41D31/00 A41B17/00 A41D13/0015 D10B2501/00 A41B2500/50 A41D2500/50 D01F6/94 D04H1/00 D01F6/70

US: 2/243.1 264/8 28/153 428/221 528/83 528/85

Family:

Publication number	Publication date	Application number	Application date
AU2012254081 AA	20121115	AU20120254081	20120410
AU2017201642 AA	20170330	AU20170201642	20170309
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Priority:

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US20130110923 20131212	US20170411480 20170120	JP20170039565 20170302
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Assignee(s): (std): LEE MOUH WAHNG ; LUBRIZOL ADVANCED MAT INC ; LUBRIZOL ADVANCED MATERIALS INC ; VEDULA RAVI R

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Inventor(s): VEDULA RAVI R NORTH RIDGEVILLE ; LEE MOUH WAHNG SOLON ; MOUH WAHNG LEE ; RAVI R VEDULA

Agent(s): HOULIHAN²; HOULIHAN²; HOULIHAN² PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN U RECHTSANWALTEN MBB; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWALTEN MBB; UNGRIA JAVIER; HALISE BETUEL ATABAY VARLIK; CONG TY TNHH LE AND LE; HILKER CHRISTOPHER D ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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: STABILIZED ALIPHATIC **POLYESTER** COMPOSITIONS

Abstract: Disclosed are stabilized aliphatic **polyester** compositions comprising an aliphatic **polyester**, a HALS, and a tris-aryl-S-triazine UV absorber that show low embrittlement, haze formation, and discoloration during weathering. Also disclosed are aliphatic **polyester** compositions comprising aliphatic **polyester**, a hindered amine light stabilizer, a triazine UV absorber, and a phosphite that exhibit low color prior to weathering but retain good clarity, color, and excellent impact strength after exposure to weathering conditions. The aliphatic **polyester** compositions may be used prepare shaped articles such as, for example, films, sheets, bottles, tubes, profiles, fibers, and molded articles.

Classifications:

International (IPC 8-9): C08G63/199 C08K5/00 C08K5/34 C08K5/3435 C08K5/3492 C08K5/51 C08K5/521 C08K5/524 C08L67/02 (Advanced/Invention);

C08G63/00 C08K5/00 (Core/Invention)

CPC: C08G63/199 C08K5/34 C08K5/527

European: C08K5/34 C08K5/527 M08G63/199

US: 524/100 524/129

Family:

Publication number	Publication date	Application number	Application date
CN101258195 A	20080903	CN200580039334	20051107
EP1812505 A2	20070801	EP20050824617	20051107
JP2008520806 T2	20080619	JP20070543108T	20051107
US2006111481 AA	20060525	US20050171772	20050630
US7582690 BB	20090901	US20050171772	20050630
WO06055315 A2	20060526	WO2005US40283	20051107
WO06055315 A3	20071011	WO2005US40283	20051107

Priority:

US20040629358P 20041119 US20050171772 20050630 WO2005US40283 20051107

Probable Assignee: EASTMAN CHEMICAL CO

Assignee(s): (std): EASTMAN CHEM CO ; IRICK GETHER JR ; PEARSON JASON C

Assignee(s): EASTMAN CHEMICAL CO ; EASTMAN CHEMICAL COMPANY

Inventor(s): (std): CLAY PEARSON JASON ; IRICK GETHER JR ; IRICK JR GETHER ; PEARSON JASON C ; PEARSON JASON CLAY

Inventor(s): PEARSON JASON ; IRICK GETHER

Agent(s): ERIC D MIDDLEMAS EASTMAN CHEMICAL CO; LOUIS N; BERNARD J

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

Title: COATINGS FOR THE MANUFACTURE AND APPLICATION OF POLYHYDROXYALKANOATE MEDICAL DEVICES

Abstract: Biocompatible coatings and spin finishes that can be applied to polyhydroxyalkanoate (PHA) **polymers**, and medical devices made from PHA **polymers**, have been developed. The coatings impart good lubricity to PHA **polymers**, particularly to fibers and braids made from these materials, making the coatings ideal for use on medical devices such as PHA braided sutures. The spin finishes can be applied to PHA fibers to facilitate their manufacture, and also for their conversion to other products, including medical textiles. The spin finishes serve to protect **multifilament fiber** bundles, and keep them intact following extrusion, and also to impart lubricity to the fiber bundles and monofilament fibers so that they are not damaged in subsequent processing steps particularly in textile processing. The coating reduces tissue drag of, for example, braided sutures.

Classifications:

International (IPC 8-9): A61B17/04 A61F2/00 A61F2/12 A61L17/10 A61L17/14 A61L27/18 A61L31/06 A61L31/10 B29C47/00 B29C70/22 D01D5/096 D01F6/62 D01G99/00 D02G3/02 D02G3/36 D03D15/00 D04C1/06 D06M15/333

D06M15/53 (Advanced/Invention);

A61L27/18 A61L27/34 A61L31/06 A61L31/10 D01F6/62 D01G99/00 D04C1/06 D04C1/12 D06L1/12 D06L1/14 D06M10/02 D06M15/15 (Advanced/Non-invention)

CPC: A61B17/04 A61F2/12 A61F2/0063 A61L17/105 A61L17/145 A61L27/18 A61L27/34 A61L31/06 A61L31/10 D01D5/096 D01F6/625 D01G99/005 D04C1/06 D06L1/12 D06L1/14 D06M10/025 D06M15/15 D06M15/333 D06M15/53 D06M2200/40 C08L67/04 Y10T428/2967 Y10T428/298 D04C1/12 D10B2509/04

European: A61L17/10B A61L17/14C A61L27/18 A61L27/34 A61L31/10 D01D5/096 D01F6/62B D06L1/12 D06L1/14 D06M10/02B D06M15/15 D06M15/333 D06M15/53 N06M200/40

US: 1/1 139/420.00AS 139/420A 19/66R 264/176.1 264/176.100S 28/169 28/169S 427/2.24 427/2.31 428/394 428/401 57/243 57/243S 57/7 57/7S 606/151 606/228 606/228S 623/13.11 623/13.18 623/13.2 623/8 623/8P 87/1 87/8

Family:

Publication number	Publication date	Application number	Application date
EP2558133 A2	20130220	EP20110715324	20110323
US2012053689 AA	20120301	US20110070211	20110323
US2014046351 AA	20140213	US20130057024	20131018
US2014248417 AA	20140904	US20140278491	20140515
US2014363672 AA	20141211	US20140278128	20140515
US8747468 BB	20140610	US20110070211	20110323
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US9943393 BB	20180417	US20140278128	20140515
US9968431 BB	20180515	US20140278491	20140515
WO11119742 A2	20110929	WO2011US29638	20110323
WO11119742 A3	20130103	WO2011US29638	20110323

Priority:

US20100318014P 20100326	US20100325686P 20100419	US20100363543P 20100712
US20100411629P 20101109	US20110070211 20110323	WO2011US29638 20110323
US20130057024 20131018	US20140278491 20140515	US20140278128 20140515

Probable Assignee: TEPHA INC

Assignee(s): (std): CONNELLY DENNIS W ; MARTIN DAVID P ; MONTCRIEFF JON I ; RIZK SAID ; TEPHA INC

Inventor(s): (std): CONNELLY DENNIS W ; MARTIN DAVID P ; MONTCRIEFF JON I ; RIZK SAID

Agent(s): Wright Andrew John; PABST PATENT GROUP LLP; PABST PATREA L ET AL

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

Title: MATRIX FOR THE PRODUCTION OF TISSUE ENGINEERED LIGAMENTS, TENDONS AND OTHER TISSUE

Abstract: The present invention provides a novel silk-fiber-based matrix having a wire-rope geometry for use in producing a ligament or tendon, particularly an anterior cruciate ligament, ex vivo for implantation into a recipient in need thereof. The invention further provides the novel silk-fiber-based matrix which is seeded with pluripotent cells that proliferate and differentiate on the matrix to form a ligament or tendon ex vivo. Also disclosed is a bioengineered ligament comprising the silk-fiber-based matrix seeded with pluripotent cells that proliferate and differentiate on the matrix to form the ligament or tendon. A method for producing a ligament or tendon ex vivo comprising the novel silk-fiber-based matrix is also disclosed.

Classifications:

International (IPC 8-9): A01N63/00 A61B17/00 A61B17/03 A61B17/04 A61B17/56 A61F13/00 A61F2/00 A61F2/02 A61F2/08 A61F2/12 A61K35/12 A61K35/28 A61K35/32 A61K35/34 A61K38/17 A61K47/42 A61K9/70 A61L15/32 A61L17/00 A61L27/00 A61L27/22 A61L27/36 A61L27/38 A61L27/40 A61L27/48 A61L27/58 A61L31/00 A61P19/00 A61P19/04 A61P21/00 A61P9/00 B32B27/04 C07K14/435 C07K14/47 C07K14/78 C12M1/00 C12M3/00 C12N11/00 C12N11/02 C12N11/04 C12N11/08 C12N5/00 C12N5/02 C12N5/07 C12N5/071 C12N5/077 C12N5/0775 C12N5/10 D01F4/02 D01H1/00 D02G1/20 D02G3/02 D02G3/44 D03D1/00 D03D15/00 D04B1/00 D04B1/14 D04B21/16 D04H1/00 D04H1/42 D06L1/12 D06M11/00 D06M13/00 D06M15/00 (Advanced/Invention); A61B17/00 A61F2/00 A61F2/02 A61K35/12 (Advanced/Non-invention); A61F (Subclass/Invention)

International (IPC 1-7): A01N63/00 A61B A61F2/00 A61F2/08 A61K35/64 A61K38/17 A61L27/00 A61L27/22 B32B27/04 C07K14/435 C12M1/00 C12M3/00 C12N11/02 C12N11/04 C12N11/08 C12N5/00 C12N5/02 C12N5/06 C12N5/08 C12N5/10 D04B1/14 D06L1/12

CPC: A61F2/0059 A61F2210/0004 A61L27/3604 A61L27/3843 A61L27/54 A61L2300/25 A61L2300/414 A61L2430/04 C07K14/43518 A61F2/00 A61K35/12 A61K38/17 A61L27/3608 A61L27/3662 A61L27/3804 A61L27/3821 A61L27/386 A61L27/3895 A61L27/48 A61L2430/10 C12N5/066 C12N2533/50 Y10T442/2566 C12N5/0663 A61L27/3834 A61K35/28 A61F2/08 C08L89/00 A61K9/70 Y10T428/298 Y10T428/249921 A61F2/0063 A61F2220/0008 A61F2/12 D04H1/4266 D04B21/16 A61L27/227 A61L27/58 D01F4/02 D02G3/448 D10B2211/04 D10B2509/08 A61L27/22

European: A61F2/00C A61F2/12 A61K38/17 A61L27/22R A61L27/36B A61L27/36B2 A61L27/36F2F A61L27/38B A61L27/38B8 A61L27/38D2 A61L27/38D2F A61L27/38H A61L27/48 A61L27/54 A61L27/58 C12N5/06B13L D01F4/02 D02G3/44H D04B21/16 D04H1/42 K61F2/08 K61F210/00A K61K35/12 K61L300/250 K61L300/414 K61L430/04 K61L430/10 M12N533/50 N10B211/04 N10B509/08

US: 1/1 28/100 28/100S 28/165 28/165P 28/167 28/167P 28/217 28/217S 424/400 424/402 424/422 424/423 424/426 424/443 424/445 424/445P 424/484 424/538 424/538S 424/93.7 424/93.700P 428/221 428/221P 428/401 428/401S 435/174 435/177 435/180 435/182 435/3.98 435/395 435/395S 435/398 435/398P 435/399 442/128 442/128S 514/21.2 514/773 514/773S 530/353 530/353S 57/1.00RS 57/1R 606/151 623/13.17 623/13.170S 623/13.19 623/13.190S 623/13.2 623/13.200P 623/23.72 623/23.720S 623/8 623/8P

Family:

Publication number	Publication date	Application number	Application date
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AU2002366083 AA	20030610	AU20020366083	20021115
AU2002366083 AH	20030610	AU20020366083	20021115
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CA2467195 C	20130507	CA20022467195	20021115
CA2518509 AA	20050908	CA20042518509	20040311
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DK1601826 T3	20111024	DK20040719844T	20040311
DK2374919 T3	20130805	DK2004071347T	20040311
DK2426241 T3	20130826	DK20040190845T	20040311
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EP1601826 A2	20051207	EP20040719844	20040311
EP1601826 A4	20100106	EP20040719844	20040311
EP1601826 B1	20110629	EP20040719844	20040311
EP2319547 A2	20110511	EP20100182736	20021115
EP2319547 A3	20110824	EP20100182736	20021115
EP2374919 A1	20111012	EP20110171347	20040311
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ES2368843 T3	20111122	ES20040719844T	20040311
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PatBase - US2003100108_RH

Patent Application Publication May 28, 2003 Sheet 1 of 6 US 2003/010108 A1

Figure 1.

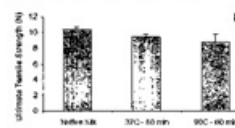
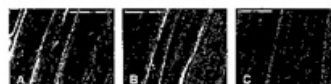


Figure 2.



ES2425101 T3	20131011	ES20110190845T	20040311
JP2005529631 T2	20051006	JP20030545173T	20021115
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Priority:

US20010008924	20011116	EP20020803634	20021115	JP20030545173	20021115
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JP20160100353	20160519	AU20160204015	20160615		

Probable Assignee: ALLERGAN INC

Assignee(s): (std): ALTMAN GREGORY H ; CHEN JINGSON ; CHEN JINGSONG ; HORAN REBECCA L ; HORAN DAVID J ; ALLERGAN INC ; HORAN REBECCA ; UNIV TUFTS ; TISSUE REGENERATION INC ; TUFTS COLLEGE ; TUFTS UNIV ; SERICA TECHNOLOGIES INC

Assignee(s): NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; TUFTS UNIV MEDFORD ; TRUSTEES OF TUFTS COLLEGE BALLOU HALL ; TRUSTEES OF TUFTS COLLEGE ; NATIONAL INSTITUTES OF HEALTH DIRECTOR DEITR ; ALLERGAN INC IRVINE ; NATIONAL INST ; KAPLAN DAVID L ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEA ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; HORAN DAVID ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT

Inventor(s): (std): ALTMAN GREGORY H ; CHEN JINGSONG ; DAVID L KAPLAN ; GREGORY H ALTMAN ; HORAN DAVID ; HORAN DAVID J ; HORAN REBECCA ; HORAN REBECCA L ; RIBEIRO CATIA CRISTIANA JORGE ; CHEN JINGSON ; KAPLAN DAVID ; REBECCA L HORAN ; KAPLAN DAVID L ; DAVID J HORAN ; ALTMAN GREGORY

Inventor(s): DAVID HORAN ; JINGSONG CHEN ; THE DESIGNATION OF THE INVENTOR HAS NOT YET BEEN FILED ; CATIA CRISTIANA JORGE RIBEIRO ; REBECCA HORAN ; HORAN REBECCA L WESTFIELD ; HORAN REBECCA WESTFIELD ; HORAN DAVID J WESTFIELD ; HORAN DAVID WESTFIELD ; CHEN JINGSONG MEDFORD ; CHEN JINGSONG VIRGINIA BEACH ; ALTMAN GREGORY H ARLINGTON ; ALTMAN GREGORY H DEDHAM

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OGILVY RENAULT LLP SENCRL SRL; GOWLING LAFLEUR HENDERSON LLP; BERESKIN AND PARR LLP SENCRL SRL; MURGITROYD AND CO; OUZMAN BEVERLEY NICOLA CLAIRE; THOM RUSSELL; HOFFMANN EITLE; DE ELZABURU ALBERTO;

SHIMIZU HATSUSHI; KAWAMOTO KAZUYA; OSAKABE SUGURU; AOYAMA TAMOTSU; MATSUTANI
MICHIKO; YAMADA TAKUJI; SAKURAI YOUKO; DAVID S RESNICK NIXON PEABODY LLP; ALLERGAN
INC; NIXON PEABODY LLP; STEPHEN; LINDA ALLYSON; DONOVAN STEPHEN ET AL

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

Title: Dental floss

Abstract: Improved dental flosses include two or more components selected to provide desired properties to the floss. The improved flosses may comprise one or a plurality of multicomponent filaments, each filament including an inner core selected to provide strength to the floss, and an outer layer selected to provide a desired surface property. The improved flosses also may comprise one or a plurality of core filaments embedded in a single body sheath. The filament component provides desirable physical properties to the floss, such as tensile strength, while a floss body sheath component provides desirable surface properties.

Classifications:

International (IPC 8-9): A61C15/04 A61K8/02 A61Q11/00 D01D5/34 D01F8/06 D01F8/12 D01F8/14 (Advanced/Invention); A61K7/16 (Advanced/Non-invention); A61C15/00 A61K8/02 A61Q11/00 D01F8/06 D01F8/12 D01F8/14 (Core/Invention)

International (IPC 1-7): A61C A61C15/00 A61C15/04 A61K07/16 A61K7/16 D01F08/06 D01F08/12 D01F08/14 D01F8/06 D01F8/12 D01F8/14

CPC: A61C15/041 A61K8/02 A61Q11/00 D01D5/34 D01F8/06 D01F8/12 D01F8/14

European: A61C15/04B A61K7/16P A61K8/02 A61Q11/00 D01D5/34 D01F8/06 D01F8/12 D01F8/14 K61K201/117

US: 132/321 132/323 132/329 156/167 156/180 156/229 156/244.11 264/172.11

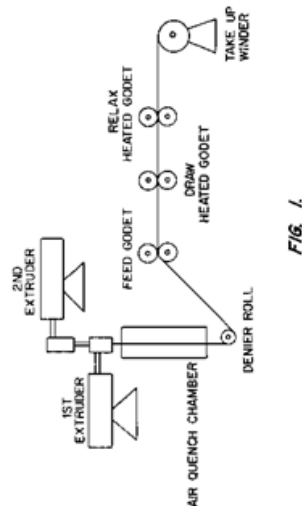
PatBase - US5875797_A

U.S. Patent

Mar. 2, 1999

Sheet 1 of 9

5,875,797



Family:

Publication number	Publication date	Application number	Application date
AR002347 A1	19980311	AR19960102974	19960606
AR2347 A1	19980311	AR19960336894	19960606
AU199662556 A1	19961224	AU19960062556	19960605
AU199854362 A1	19980529	AU19980054362	19971105
AU708978 B2	19990819	AU19960062556	19960605
AU733769 B2	20010524	AU19980054362	19971105
BRPI9609267 A	19990511	BR1996PI09267	19960605
BRPI9712889 A	20000201	BR1997PI12889	19971105
CA2219276 AA	19971027	CA19962219276	19960605
CA2270350 AA	19990429	CA19972270350	19971105
CA2270350 C	20040810	CA19972270350	19971105
CN1239875 A	19991229	CN19971080470	19971105
CN1314373 C	20070509	CN19971080470	19971105
DE69616545 D1	20011206	DE19966016545	19960605
DE69616545 T2	20020502	DE19966016545T	19960605
DE69730863 D1	20041028	DE19976030863	19971105
DE69730863 T2	20050922	DE19976030863T	19971105
EP0831763 A2	19980401	EP19960921303	19960605
EP0831763 B1	20011031	EP19960921303	19960605
EP0952791 A1	19991103	EP19970948265	19971105
EP0952791 B1	20040922	EP19970948265	19971105
ES2229391 T3	20050416	ES19970948265T	19971105
JP11506672 T2	19990615	JP19970501490T	19960605
KR19990021974 A	19990325	KR19970708449	19960605
MX9709132 A1	19980331	MX19970009132	19960605
NZ335564 A	20010928	NZ19970335564	19971105
US5875797 A	19990302	US19960743722	19961106
US5904152 A	19990518	US19970833643	19970408
US6027592 A	20000222	US19970833508	19970408
WO9639117 A2	19961212	WO1996US09084	19960605
WO9639117 A3	19970109	WO1996US09084	19960605
WO9819623 A1	19980514	WO1997US20679	19971105
ZA9604684 A	19970312	ZA19960004684	19960605

Priority:

US19950467814 19950606	US19950471636 19950606	WO1996US09084 19960605
US19960699890 19960815	US19960743722 19961106	US19970833643 19970408
US19970833508 19970408	WO1997US20679 19971105	

Probable Assignee: GILLETTE CANADA CO

Assignee(s): (std): CASTILLO BRAD ; CHIANG CASPER W ; GILLETTE CANADA ; GILLETTE CANADA CO ; MASTERMAN THOMAS CRAIG ; PARK EDWARD HOSUNG ; ROBERTS MICHAEL F ; SPENCER JEAN L ; GILLETTE CO ; GILLETTE CANADA INC ; TSENG MINGCHIH MICHAEL ; TSENG MINGCHIH M

Assignee(s): THE GILLETTE COMPANY ; THE GILLETTE CO BOSTON ; BATTELLE MEMORIAL INST ; BATTELLE MEMORIAL INST K1 53 ; GILLETTE CANADA CO MISSISSAUGA ; THE GILLETTE CO ; GILLETTE CANADA COMPANY

Inventor(s): (std): CASTILLO BRAD ; CHIANG CASPER W ; CHIANG W ; JEAN I SPENCER ; MASTERMAN CRAIG ; MASTERMAN T ; MASTERMAN THOMAS CRAIG ; PARK E ; PARK EDWARD HOSUNG ; PARK HOSUNG ; ROBERTS F ; ROBERTS M ; ROBERTS MICHAEL F ; SPENCER J ; SPENCER JEAN I ; SPENCER JEAN L ; SPENCER L ; TSENG M ; TSENG MICHAEL ; TSENG MINGCHIH M ; TSENG MINGCHIH MICHAEL ; THOMAS CRAIG MASTERMAN ; PARK E H ; MINGCHIH M TSENG ; MICHAEL F ROBERTS ; JEAN L SPENCER ; EDWARD HOSUNG PARK ; CHIANG C W ; CASTILLO C W CHIANG E H PARK B ; CASTILLO B ; MINGCHIH MICHAEL TSENG ; E H PARK ; CASPER W CHIANG ; C W CHIANG ; BRAD CASTILLO ; B CASTILLO

Inventor(s): C W CHIANG E H PARK B CASTILLO

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO

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

Title: MEMBRANE, APPARATUS, AND ASSOCIATED METHOD

Abstract: A membrane is provided that is formed from a composition. The composition comprises a polyarylene ether **polymer** or copolymer comprising a zwitterion; or comprises a polyarylene **polymer** or copolymer comprising a zwitterion.

Classifications:

International (IPC 8-9): B01D39/16 B01D71/38 C08G61/02 C08G65/00 C08G65/48 C08G73/00 C08G73/06 C08G75/00 C08G79/02 C08J5/22 C08L51/00 C08L71/12 (Advanced/Invention); B01D39/16 B01D71/00 C08G61/00 C08G65/00 C08G73/00 C08G75/00 C08G79/00 C08J5/20 C08L51/00 C08L71/00 (Core/Invention)

CPC: B01D71/76 C08L65/02 B01D61/243 B01D69/02 B01D71/44 B01D2323/02 C08G65/48 B01D67/0093 B01D69/125 B01D71/28 B01D71/52 B01D71/56 B01D71/78 B01D2323/30 B01D2323/38 B01D2323/40 B01D2325/18 B01D2325/34 B01D2325/36 C08L71/126 B01D61/025 B01D61/145 C08G2261/312 C08L65/00 C08J9/28 B01D67/0009 B01D69/08 B01D71/66 B01D71/68 B01D71/82 B01D2325/20 C08G61/10 C08G2261/143 C08G2261/516 C08G2261/72 C08G2261/722 C08J7/12 C08J2365/00 C08J2371/12 D01F6/66 D01F6/76 C08G65/44 C08G65/485 C08L71/02 C08L71/12 C08L2205/05

European: B01D61/02D B01D61/14D B01D61/24B B01D67/00K14 B01D67/00R18 B01D69/02 B01D69/08 B01D69/12D B01D71/28 B01D71/44 B01D71/52 B01D71/56 B01D71/66 B01D71/68 B01D71/78 B01D71/82 C08G61/10 C08G65/44 C08G65/48 C08G65/48B C08J7/12 C08J9/28 C08L65/00 C08L65/02 C08L71/12 C08L71/12C D01F6/66 D01F6/76 L01D323/02 L01D323/40 L01D325/18 L01D325/20 L01D325/34 L01D325/36 L01D61/02D L01D61/14D M08G261/143 M08G261/312 M08G261/516 M08G261/72 M08G261/722 M08J365/00 M08J371/12 M08L205/05 M08L65/00 M08L71/02

US: 210/500.36 210/500.360P 521/27 521/27P 524/543 525/64S 528/373 528/373S 528/398 528/398S 528/422 528/422S 528/423 528/423S 528/425 528/425S 528/86 528/86S

Family:

Publication number	Publication date	Application number	Application date
US2008203012 AA	20080828	US20070677848	20070222
US2008207822 AA	20080828	US20070677851	20070222
US2008312349 AA	20081218	US20070677861	20070222
WO08103599 A2	20080828	WO2008US54048	20080215
WO08103599 A3	20081106	WO2008US54048	20080215

Priority:

US20070677848 20070222 US20070677851 20070222 US20070677861 20070222

Probable Assignee: SABIC INNOVATIVE PLASTICS IP BV

Assignee(s): (std): GEN ELECTRIC ; YEAGER GARY WILLIAM ; ZHANG YANSHI ; SURIANO JOSEPH ANTHONY ; STEIGER DANIEL ; SABIC INNOVATIVE PLASTICS IP ; OBA SHARON

Assignee(s): SABIC INNOVATIVE PLASTICS IP BV ; SABIC INNOVATIVE PLASTICS IP B V ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY ; CITIBANK NA ; CITIBANK NA COLLATERAL AGENT AS

Inventor(s): (std): OBA SHARON ; STEIGER DANIEL ; SURIANO JOSEPH ANTHONY ; YEAGER GARY WILLIAM ; ZHANG YANSHI

Agent(s): CANTOR COLBURN LLP - SABIC (NORYL); CANTOR COLBURN LLP SABIC NORYL; BUCHANAN J MICHAEL

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

Title: METHODS OF ORIENTING MULTIFILAMENT YARN AND MONOFILAMENTS OF POLY-4-HYDROXYBUTYRATE AND COPOLYMERS THEREOF

Abstract: Resorbable multifilament yarns and monofilament fibers including poly-4-hydroxybutyrate and copolymers thereof with high tenacity or high tensile strength have been developed. The yarns and fibers are produced by cold drawing the multifilament yarns and monofilament fibers before hot drawing the yarns and fibers under tension at temperatures above the melt temperature of the **polymer** or copolymer. These yarns and fibers have prolonged strength retention in vivo making them suitable for soft tissue repairs where high strength and strength retention is required. The multifilament yarns have tenacities higher than 8.1 grams per denier, and in vivo, retain at least 65 percent of their initial strength at 2 weeks. The monofilament fibers retain at least 50 percent of their initial strength at 4 weeks in vivo. The monofilament fibers have tensile strengths higher than 500 MPa. These yarns and fibers may be used to make various medical devices for various applications.

Classifications:

International (IPC 8-9): A61K31/74 A61L15/12 A61L15/14 A61L17/10 A61L2/08 A61L2/16 A61L27/18 A61L31/06 A61L31/14 B29C55/00 C12P1/04 C12P7/40 D01D5/00 D01D5/08 D01F6/62 D01F8/14 D02G3/04 (Advanced/Invention); B29K73/00 B29L31/00 (Advanced/Non-invention)

CPC: A61L31/06 A61L31/148 D01F8/14 B29C55/005 D10B2331/04 B29K2073/00 B29L2031/731 D02G3/04 D01D5/08 D10B2331/041 D10B2401/063 D10B2509/04 D10B2509/08 B29K2673/00 D01F6/625 A61L17/105

US: 264/164 424/1.11 424/400 424/423 424/443 424/618 424/9.1 428/373 514/152 514/2.3 514/24 514/29 514/37 514/40 514/772.3 521/182 523/113 525/450 528/361

Family:

Publication number	Publication date	Application number	Application date
CA2969429 AA	20170530	CA20152969429	20151210
EP3230500 A1	20171018	EP20150825981	20151210
US2016166727 AA	20160616	US20150964985	20151210
US2017081784 AA	20170323	US20160368922	20161205
US9555155 BB	20170131	US20150964985	20151210
WO16094669 A1	20160616	WO2015US65015	20151210

Priority:

US20140090398P 20141211 US20150162232P 20150515 US20150964985 20151210
WO2015US65015 20151210 US20160368922 20161205

Probable Assignee: TEPHA INC

Assignee(s): (std): TEPHA INC

Assignee(s): SHAH BHAVIN ; RIZK SAID ; WILLIAMS SIMON F ; BERNASCONI MATTHEW ; FELIX FABIO ; GANATRA AMIT ; MARTIN DAVID P

Inventor(s): (std): BERNASCONI MATTHEW ; FELIX FABIO ; GANATRA AMIT ; MARTIN DAVID P ; RIZK SAID ; SHAH BHAVIN ; WILLIAMS SIMON F

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; POTTER CLARKSON LLP; PABST PATENT GROUP LLP; PABST PATREA L ET AL

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

Title: IMMOBILISATION ELEMENT AND ADDITIVE MANUFACTURING METHOD FOR MAKING SAME

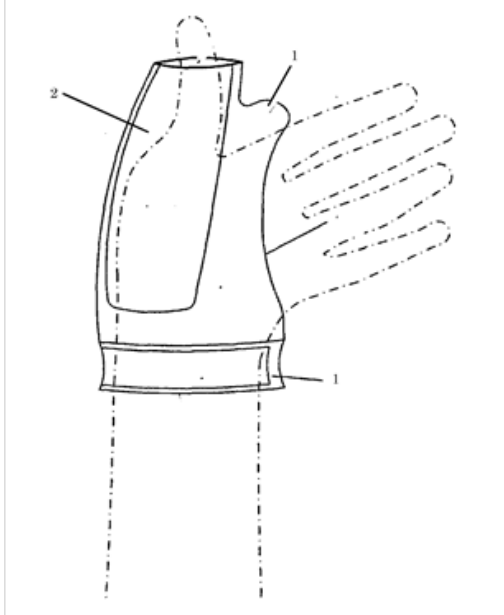
Abstract: This invention relates to a method for manufacturing an individualized immobilization element for the non-invasive immobilization and/or mobilization of at least a segment of a body part of a patient in a predetermined position relative to a reference and/or in a pre-certain configuration. The method comprises the steps of (i) providing a data set that comprises a three-dimensional image of an outer contour of at least a part of the segment of the body part to be immobilized and/or mobilized and (ii) the manufacture of at least a part of the immobilization element by rapid manufacturing of a shape on the basis of said data set using a polymeric material containing a thermoplastic **polymer** having a melting point less than or equal to 100 degrees centigrade, wherein the **polymer** material contains a nucleating agent for enhancing the of the crystallization of the thermoplastic **polymer**.

Classifications:

International (IPC 8-9): A61B6/04 A61F5/01 A61F5/04 A61F5/05 A61F5/058 A61F5/37 A61L15/12 B29C64/106 B29C64/118 B29C64/153 B29C64/209 B29C64/268 B29C64/386 B29C67/00 B29C67/24 B33Y10/00 B33Y70/00 B33Y80/00 D01F6/00 D01F6/46 D01F6/62 D01F6/70 G05B19/4099 (Advanced/Invention); B29K101/10 B29K105/00 B29K105/16 B29K507/04 B29K67/00 B29L31/00 (Advanced/Non-invention)

CPC: A61F5/0118 B29C64/106 B29C64/118 B33Y70/00 B33Y80/00 B29C64/153 B29C64/209 G05B19/4099 A61F5/3707 A61L15/12 B33Y10/00 A61F5/37 B29K2067/04 B29K2101/10 B29K2105/0005 B29K2105/162 B29K2507/04 B29K2995/0041 G05B2219/49007 G05B2219/35134 A61F5/05875 B29L2031/753

PatBase - US2018001547_AA



Family:

Publication number	Publication date	Application number	Application date
BE1022172 B9	20171215	BE20140000853	20141231
CA2972191 AA	20170623	CA20152972191	20151223
CN107438512 A	20171205	CN201580071669	20151223
EP3240670 A1	20171108	EP20150830865	20151223
JP2018504196 T2	20180215	JP20170535813T	20151223
US2018001547 AA	20180104	US20150540515	20151223
WO16108154 A1	20160707	WO20151B59935	20151223

Priority:

BE20140000853 20141231 WO20151B59935 20151223

Probable Assignee: ORFIT IND NV

Assignee(s): (std): ORFIT IND NV

Assignee(s): BOGDANOV BOGDAN ; CUYPERS STEVEN ; DE GRUYTERE SIMON

Inventor(s): (std): BOGDANOV BOGDAN ; CUYPERS STEVEN ; DE GRUYTERE SIMON

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP; VO; JANSEN CM

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

Title: PROCESS OF FORMING NANO-COMPOSITES AND NANO-POROUS NON-WOVENS

Abstract: A process for forming a nano-composite including mixing a first and second thermoplastic **polymer** in a molten state forming a molten **polymer** blend. The second **polymer** is soluble in a first solvent and the first **polymer** is insoluble in the first solvent. The first **polymer** forms discontinuous regions in the second **polymer**. Next, the **polymer** blend is subjected to extensional flow, shear stress, and heat forming nanofibers where less than about 30 percent by volume of the nanofibers are bonded to other nanofibers. Next the **polymer** blend with nanofibers is cooled and the first intermediate is formed into a pre-consolidation formation. The pre-consolidation formation is then consolidated causing nanofiber movement, randomization, and at least 70 percent by volume of the nanofibers to fuse to other nanofibers. According to one aspect, the second intermediate is then subjected to the first solvent to the dissolving away at least a portion of the second **polymer**.

Classifications:

International (IPC 8-9): B29C51/04 (Advanced/Invention)

CPC: B29C43/003 B29C55/00 B29K2105/0088 D01F6/56 D04H13/02

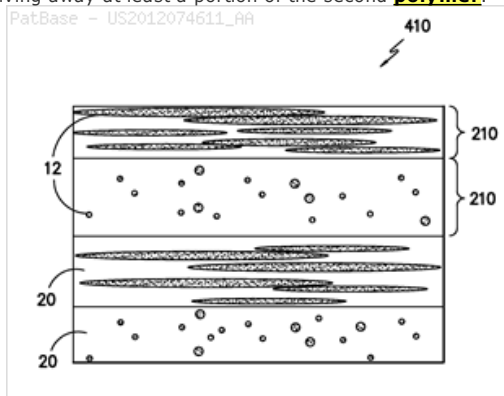
B32B5/022 B32B7/005 B32B27/08 B32B27/286 B32B27/32

B32B2262/14 B32B2270/00 C08J5/005 C08J5/046 C08J3/005

D01F6/46 B82Y30/00

US: 264/164 264/164P 977/900 977/900S

PatBase - US2012074611_AA



Family:

Publication number	Publication date	Application number	Application date
US2012074611 AA	20120329	US20100893021	20100929

Priority:

US20100893021 20100929

Probable Assignee:

MILLIKEN AND CO

Assignee(s): (std):

SCRIVENS WALTER A ; ZHOU HAO

Assignee(s):

MILLIKEN AND CO

Inventor(s): (std):

SCRIVENS WALTER A ; ZHOU HAO

Title: MICRO-FIBER WEBS OF POLY-4-HYDROXYBUTYRATE AND COPOLYMERS THEREOF PRODUCED BY CENTRIFUGAL SPINNING

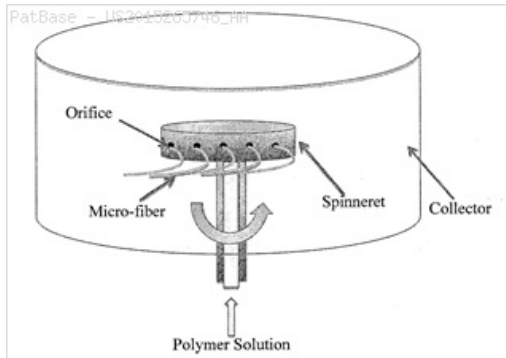
Abstract: Methods to produce micro-fiber webs containing fibers of 4-hydroxybutyrate or copolymers thereof with average diameters from 0.01 to 100 micro m, have been developed. The micro-fiber webs are produced by centrifugal spinning. These methods allow the micro-fiber webs to be produced without substantial loss of the **polymer** weight average molecular weight. Webs containing micro-fibers of poly-4-hydroxybutyrate or copolymer thereof, are made by centrifugal spinning. The micro-fibers have average diameters ranging from 0.01 to 100 micro m and contain crimped fibers with a higher elongation at break fibers when compared to fibers derived by melt-blown extrusion, dry spinning and electrospinning. The fibers of the micro-fiber webs have a high degree of orientation. These micro-fiber webs can be used for a variety of purposes including fabrication of medical devices.

Classifications:

International (IPC 8-9): A61B19/00 A61F13/00 A61F2/02 A61L15/22 A61L15/26 A61L15/42 A61L15/44 A61L27/18 A61L27/26 A61L27/36 A61L27/50 A61L27/54 A61L27/60 A61L31/04 A61L31/06 A61L31/14 C08G63/06 C08K3/00 C08K5/00 D01D5/18 D01F6/62 D04H1/42 D04H1/435 D04H1/72 (Advanced/Invention)

CPC: A61L27/18 A61L27/36 D01F6/625 C08K5/0008 A61L15/26 A61L15/44 A61L27/54 A61F13/00021 A61F13/00017 A61F2/02 A61L2420/02 A61L15/225 A61L15/42 A61L27/26 A61L27/50 A61L27/60 A61L31/041 A61L31/06 A61L31/14 D01D5/18 D04H1/435 D04H1/72 C08L67/04 C08K3/01

US: 1/1 128/897 128/899 264/211 424/1.65 427/2.31 514/772.3 521/182 523/113 525/450 528/361 600/431 602/42 623/11.11



Family:

Publication number	Publication date	Application number	Application date
EP3119930 A1	20170125	EP20150713617	20150318
US2015265746 AA	20150924	US20150661172	20150318
US9457127 BB	20161004	US20150661172	20150318
WO15143000 A1	20150924	WO2015US21176	20150318

Priority:

US20140955080P 20140318 US20150661172 20150318 WO2015US21176 20150318

Probable Assignee: TEPHA INC

Assignee(s): (std): TEPHA INC

Inventor(s): (std): MARTIN DAVID ; MARTIN DAVID P ; RIZK SAID

Agent(s): POTTER CLARKSON LLP; PABST PATENT GROUP LLP; PABST PATREA L ET AL

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

Title: DYEABLE AND FLAME-RETARDED THERMOPLASTIC POLYURETHANE FIBERS

Abstract: The invention relates to a thermoplastic polyurethane fibers, and process of making the same, where the described fiber has good dyeability, and in some embodiments, good flame retardant properties. Such fibers are made from a composition that includes (a) a thermoplastic polyurethane itself comprising the reaction product of: (i) one or more polyols, (ii) one or more diisocyanates, (iii) one or more chain extenders, (iv) optionally one or more crosslinking agents, and (v) one or more functional modifiers wherein each said functional modifier is a reaction product of an aminodiol and a Bronsted acid.

Classifications:

International (IPC 8-9): C08G18/32 C08G18/38 C08G18/42 C08G18/65 C08G18/66 C08G18/76 C08L75/04 D01F1/07 D01F1/10 D01F6/70 D01F6/94 D03D15/00 D03D15/08 D04B1/18 D06P3/24 (Advanced/Invention);

C08G18/38 C08L75/04 D01F1/07 D01F1/10 D01F6/70 (Core/Invention)

CPC: C08L75/04 D01F6/70 D01F6/94 C08G18/3206 C08G18/3889 C08G18/4238 C08G18/6651 C08G18/7671 D01F1/07 D01F1/10 D03D15/00 D03D15/08 D10B2401/041 Y10T442/30 Y10T442/40 Y10T442/60

US: 442/181 442/304 442/327 525/453 528/85

Family:

Publication number	Publication date	Application number	Application date
CN104884688 A	20150902	CN201380066832	20131009
CN104884688 B	20170308	CN201380066832	20131009
DE602013005793 D1	20160504	DE201360005793T	20131009
DE602013027023 D1	20171109	DE201360027023T	20131009
EP2912216 A1	20150902	EP20130789065	20131009
EP2912216 B1	20160323	EP20130789065	20131009
EP3067446 A1	20160914	EP20160159886	20131009
EP3067446 B1	20170920	EP20160159886	20131009
ES2566610 T3	20160414	ES20130789065T	20131009
ES2642156 T3	20171115	ES20160159886T	20131009
IN03351DN2015 A	20151120	IN2015DN03351	20150421
JP2015537126 T2	20151224	JP20150537730T	20131009
JP2018053421 A2	20180405	JP20170242581	20171219
KR20150074111 A	20150701	KR20157013188	20131009
SG11201503114X A1	20150528	SG20151103114	20131009
TH168111 A	20170921	TH20151002182	20131009
TW201428148 A	20140716	TW20130137481	20131017
US2015275402 AA	20151001	US20130437048	20131009
US9963806 BB	20180508	US20130437048	20131009
WO14066037 A1	20140501	WO2013US63966	20131009

Priority:

US20120717144P 20121023 EP20130789065 20131009 EP20160159886 20131009
WO2013US63966 20131009 US20130437048 20131009 JP20150537730T 20131009

Probable Assignee: LUBRIZOL ADVANCE MATERIALS INC

Assignee(s): (std): LUBRIZOL ADVANCE MATERIALS INC ; LUBRIZOL ADVANCED MAT INC

Assignee(s): LUBRIZOL ADVANCED MATERIALS INC ; LUBRIZOL ADVANCED MATERIALS INC CLEVELAND

Inventor(s): (std): FARKAS JULIUS ; LEE MOUH WAHNG ; VEDULA RAVI R

Inventor(s): VEDULA RAVI R CLEVELAND ; LEE MOUH WAHNG CLEVELAND ; FARKAS JULIUS CLEVELAND

Agent(s): VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELEN U RECHTSANWAELEN MBB; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELEN U RECHTSANWAELEN MBB; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELEN U RECHTSANWAELEN MBB; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWAELEN MBB; UNGRIA JAVIER; ERYN ACE; TERESAN W; HILKER CHRISTOPHER D ET AL

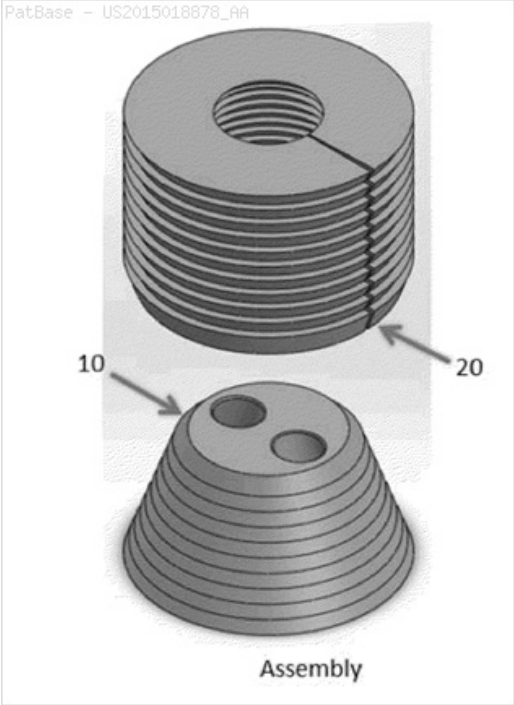
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Title: SOFT SUTURE ANCHOR

Abstract: Compositions and materials for making soft suture anchors comprising materials that improve osteointegration have been developed. These compositions and materials comprise bioceramics, resorbable materials, and combinations thereof. A preferred embodiment comprises a soft suture anchor comprising a resorbable ceramic and a resorbable suture.

Classifications:

International (ipc 8-9): A61B17/04 A61L31/12
B29C47/00 (Advanced/Invention)
CPC: A61B17/0401 B29C47/0038 A61B2017/0445 A61B2017/044
A61B2017/0464 A61L31/127 A61L31/128 C08L67/04 C08L23/06
US: 264/103 606/232



Family:

Publication number	Publication date	Application number	Application date
CA2917427 AA	20160105	CA20142917427	20140710
EP3019209 A1	20160518	EP20140744726	20140710
US2015018878 AA	20150115	US20140328210	20140710
US9655609 BB	20170523	US20140328210	20140710
WO15006596 A1	20150115	WO2014US46209	20140710

Priority:

US20130844479P 20130710 US20140986695P 20140430 US20140328210 20140710
WO2014US46209 20140710

Probable Assignee: TEPHA INC

Assignee(s): (std): TEPHA INC

Assignee(s): WILLIAMS SIMON F ; BERNASCONI MATTHEW ; MARTIN DAVID P ; RIZK SAID

Inventor(s): (std): BERNASCONI MATTHEW ; MARTIN DAVID P ; RIZK SAID ; WILLIAMS SIMON F

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; POTTER CLARKSON LLP; PABST PATENT GROUP LLP;
VORNDRAH CHARLES 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
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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: MULTI-LAYER NANO-COMPOSITES

Abstract: A nano-composite article containing a nanofiber layer and a supporting layer. The nanofiber layer has a first outer boundary adjacent the supporting layer, a second outer boundary on the side of the nanofiber layer opposite the supporting layer and an inner boundary located at the mid-point between the first outer boundary and the second outer boundary and parallel to the first outer boundary. The nanofiber layer contains a matrix and a plurality of nanofibers, where at least 70 percent of the nanofibers are bonded to other nanofibers. The supporting layer contains a thermoplastic **polymer**. The concentration of nanofibers is substantially uniform in the nanofiber layer from the inner boundary to the first boundary layer.

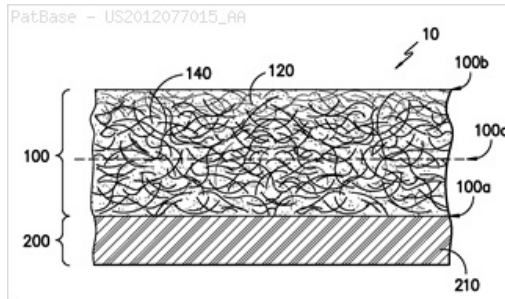
Classifications:

International (IPC 8-9): B29C47/06 B32B27/02 B32B27/04 B32B5/26 (Advanced/Invention)

CPC: B32B5/26 B29C47/065 B29C47/0014 B29C47/0021 Y10T428/249949 Y10T428/249952

European: B29C47/06P

US: 264/171.1 264/171.100S 428/300.4 428/300.400P 428/301.4 428/301.400S 977/961 977/961S



Family:

Publication number	Publication date	Application number	Application date
US2012077015 AA	20120329	US20100893030	20100929

Priority:

US20100893030 20100929

Probable Assignee:

MILLIKEN AND CO

Assignee(s): (std):

SCRIVENS WALTER A ; ZHOU HAO

Assignee(s):

MILLIKEN AND CO

Inventor(s): (std):

SCRIVENS WALTER A ; ZHOU HAO

Title: RESIN COMPOSITION, MOLDED ARTICLE AND PRODUCTION METHOD THEREOF

Abstract: A resin composition includes an aliphatic **polyester** resin. The resin has carboxyl groups at the end termini of the molecular chain and at least one compound represented by the general formula (I), the compound being added to the resin to cap a part or all of the carboxyl groups at the end termini of the molecular chain of the resin. A process for producing a fiber includes mixing a pellet comprising an aliphatic **polyester** resin having carboxyl groups at the end termini of the molecular chain with a compound represented by the general formula (I) so that the content of the compound becomes 0.1 to 8 percent by weight and then melt-spinning the resulting mixture under the conditions of a spinning temperature of 200 to 250 C. degrees, a melt residence time of 180 to 1800 sec and a spinning rate of 500 to 10000 m/min. (I) wherein at least one of R1 to R3 represents a glycidyl group and the other group or groups independently represents or represent a hydrogen atom, an alkyl group having 1 to 10 carbon atoms, a hydroxyl group or an allyl group.

Classifications:

International (IPC 8-9): B29C47/88 B32B19/00 C08G63/16 C08G63/91 C08K5/3477 C08L101/16 C08L67/00 C08L67/02 C08L67/04 D01F6/62 D01F6/92 D02G3/00 (Advanced/Invention); C08G63/00 C08L101/16 (Advanced/Non-invention); B29C47/88 B32B19/00 C08G63/00 C08L101/00 C08L67/00 D01F6/62 D01F6/92 D02G3/00 (Core/Invention); C08G63/00 C08L101/00 (Core/Non-invention)

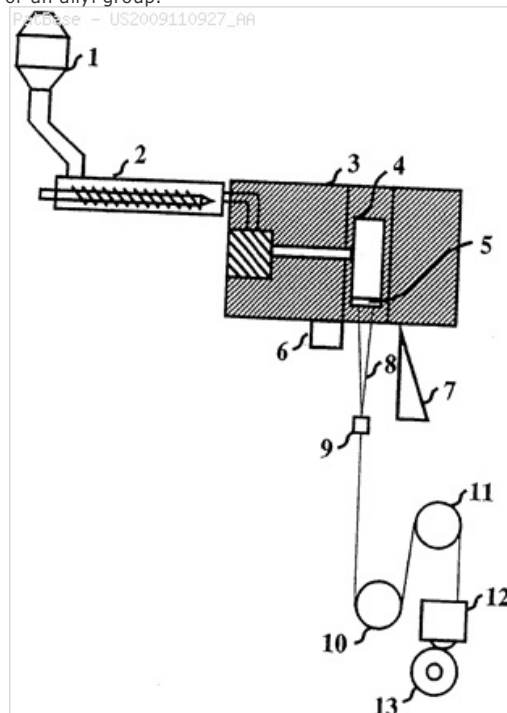
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CPC: Y10T428/29 Y10T428/2924 Y10T428/298 C08G63/912

C08G63/914 C08L63/06 C08L67/02 D01F6/92 D01F6/62

European: C08G63/91B C08G63/91D C08L67/02 D01F6/62 D01F6/92 M08L63/06

US: 264/168 264/211.12 264/211.120S 385/143 385/145 428/357 428/370 428/401 428/401P 525/400 525/418 525/418S 528/176 528/190 528/192 528/193 528/194 528/271 528/272 528/303



Family:

Publication number	Publication date	Application number	Application date
CN101171301 A	20080430	CN200680015235	20060327
CN101171301 B	20140730	CN200680015235	20060327
EP1867680 A1	20071219	EP20060730094	20060327
EP1867680 A4	20131030	EP20060730094	20060327
JP2006104092 A1	20080904	JP20060520536T	20060327
JP5686396 B1	20150318	JP20060520536T	20060327
KR101248646 B1	20130328	KR20077022186	20060327
KR20070120115 A	20071221	KR20077022186	20060327
TH94698 A	20090327	TH20061001367	20060327
US2009110927 AA	20090430	US20060887283	20060327
US7799424 BB	20100921	US20060887283	20060327
WO06104092 A1	20061005	WO2006JP306146	20060327

Priority:

JP20050095977 20050329 JP20050328145 20051111 JP20060520536 20060327
WO2006JP306146 20060327

Probable Assignee: TORAY IND INC

Assignee(s): (std): MIHARA TAKAAKI ; MOCHIDUKI KATSUHIKO ; TORAY IND ; TORAY IND INC A CORP OF JAPAN ; TORAY INDUSTRIES

Assignee(s): TORAY IND INC A OF JAPAN CORP ; TORAY IND INC

Inventor(s): (std): KATSUHIKO MOCHIDUKI ; MIHARA TAKAAKI ; MOCHIDUKI KATSUHIKO ; TAKAAKI MIHARA

Agent(s): IP GROUP OF DLA PIPER US LLP; DLA PIPER LLP (US); DLA PIPER LLP

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

Title: ULTRAFINE ELECTROSPUN FIBERS OF POLY-4-HYDROXYBUTYRATE AND COPOLYMERS THEREOF

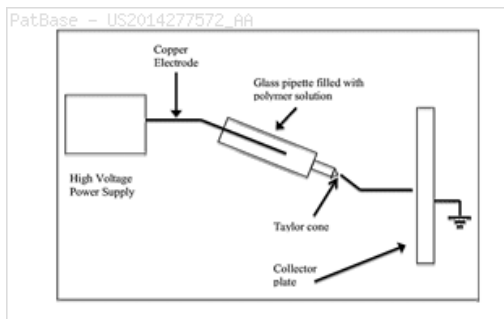
Abstract: Methods to produce structures containing ultrafine fibers with average diameters from 10 nm to 10 micro m and more preferably from 50 nm to 5 micro m, have been developed. These methods produce ultrafine fibers without substantial loss of the **polymer**'s weight average molecular weight. The ultrafine electrospun fibers have an unexpectedly higher degree of molecular orientation, and higher melt temperature than fibers derived by dry spinning. In the preferred embodiment, the **polymer** comprises 4-hydroxybutyrate. The ultrafine fibers are preferably derived by electrospinning. A solution of the **polymer** is dissolved in a solvent, pumped through a spinneret, subjected to an electric field, and ultrafine fibers with a high degree of molecular orientation are collected. These structures of ultrafine fibers can be used for a variety of purposes including fabrication of medical devices.

Classifications:

International (IPC 8-9): A61F2/28 A61L15/26 A61L15/42 A61L17/10 A61L17/14 A61L27/18 A61L27/34 A61L27/56 A61L31/10 A61L31/14 C08L67/04 D01D5/00 D01F6/62 (Advanced/Invention)

CPC: A61L31/14 A61F2/28 D01D5/0038 D01F6/625 A61L15/26 A61L15/425 A61L17/105 A61L17/145 A61L27/34 A61L27/56 A61L31/10 A61L31/146 A61L2400/12 Y10T428/298 Y10T442/10 Y10T442/681 Y10T428/249953

US: 264/6 428/304.4 428/401 442/1 442/401 623/23.58



Family:

Publication number	Publication date	Application number	Application date
DE602014011991 D1	20170831	DE201460011991T	20140311
EP2968669 A1	20160120	EP20140723153	20140311
EP2968669 B1	20170719	EP20140723153	20140311
ES2638689 T3	20171023	ES20140723153T	20140311
US2014277572 AA	20140918	US20130800871	20130313
WO14164735 A1	20141009	WO2014US23359	20140311

Priority:

US20130800871 20130313 EP20140723153 20140311 WO2014US23359 20140311

Probable Assignee: TEPHA INC

Assignee(s): (std): TEPHA INC

Assignee(s): TEPHA INC LEXINGTON

Inventor(s): (std): GUO KAI ; MARTIN DAVID ; MARTIN DAVID P ; RIZK SAID ; WILLIAMS SIMON ; WILLIAMS SIMON F

Inventor(s): RIZK SAID WINDHAM ; MARTIN DAVID P ARLINGTON ; GUO KAI WALTHAM

Agent(s): MEISSNER BOLTE PATENTANWALTE RECHTSANWALTE PARTNERSCHAFT MBB; POTTER CLARKSON LLP; VALLEJO JUAN PEDRO; PABST PATREA L ET AL

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

Title: STABILIZATION OF ORGANIC MATERIALS

Abstract: Organic materials which possess outstanding stability to oxidative, thermal or light-induced degradation comprise as stabilizers at least one compound of the formula (I) wherein the general symbols are as defined in claim 1. The compounds of formula I are especially useful as stabilizers for protecting **polymers** and lubricants against oxidative, thermal or light-induced degradation and as scavengers for oxidized developer in color photographic material.

Classifications:

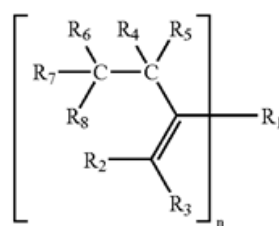
International (IPC 8-9): C07C255/41 C07C325/02 C07C69/52 C07C69/618 C07D307/80 C07D307/83 C07D307/85 C07D407/12 C08G61/02 C08G61/06 C08G61/08 C08K5/00 C08K5/11 C08K5/1535 C08K5/315 C08K5/41 C08L101/00 C08L55/00 C09K15/04 C09K15/06 C09K15/12 C09K15/20 C09K15/28 (Advanced/Invention); C07C255/07 C07C255/09 C07C255/22 C07C317/08 C07C317/44 C07C69/52 C07C69/527 C07C69/533 C07D307/83 C08K5/1535 C08K5/315 C08K5/41 C09K15/12 C09K15/20 C09K15/28 C09K5/06 (Advanced/Non-invention); C07D307/00 C08K5/00 C08L101/00 C09K15/00 (Core/Invention); C07C255/00 C07C317/00 C07C69/00 (Core/Non-invention)

CPC: C07C69/604 C07C255/34 C07C255/41 C07C317/24 C07C317/44 C07D307/83 C08K5/005 C08K5/1535 C08K5/315 C08K5/41 C08L21/00 C08L23/02 C08L69/00 C08L75/04 C07C2602/08 C07C2603/18

European: C07C255/34 C07C255/41 C07C317/24 C07C317/44 C07C69/604 C07D307/83 C08K5/00P6 C08K5/1535 C08K5/315 C08K5/41 M07C102/08 M07C103/18 M08L21/00 M08L23/02 M08L69/00 M08L75/04

US: 252/407 252/407P 524/1 524/111 524/155 524/155S 524/208 524/208S 524/209 524/209S 524/311 524/311S 524/543 524/553 524/63 525/413 525/415 528/354 528/361 540/1 540/12 540/13 540/31 540/4 544/1 544/172 544/173 544/175 544/2 544/3 544/63 544/69 546/14 548/440 549/1 549/12 549/29 549/304 549/304S 549/305 549/305S 549/307 549/310 549/4 549/460 549/462 549/462S 549/469 549/472 549/479 549/6 549/60 558/397 558/397S 558/406 558/406S 560/10 560/10S 560/190 560/190S 560/80 560/80S 568/20 568/20S

PatBase - US2007257234_AA



(I)

Family:

Publication number	Publication date	Application number	Application date
AT512191 E	20110615	AT20050775828T	20050822
CA2576816 AA	20070202	CA20052576816	20050822
CA2576816 C	20121016	CA20052576816	20050822
CN101010369 A	20070801	CN200580028914	20050822
CN101010369 B	20101222	CN200580028914	20050822
DE602005028430 D1	20110721	DE200560028430T	20050822
EP1786859 A2	20070523	EP20050775828	20050822
EP1786859 B1	20110608	EP20050775828	20050822
ES2367796 T3	20111108	ES20050775828T	20050822
JP2008511705 T2	20080417	JP20070528836T	20050822
JP5008566 B2	20120822	JP20070528836T	20050822
US2007257234 AA	20071108	US20050660534	20050822
US2012088869 AA	20120412	US20110330737	20111220
US8105504 BB	20120131	US20050660534	20050822
US8518302 BB	20130827	US20110330737	20111220
WO06024610 A2	20060309	WO2005EP54112	20050822
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Priority:

EP20040104158 20040831 EP20050775828 20050822 WO2005EP54112 20050822
US20070660534 20070216 US20110330737 20111220

Probable Assignee: CIBA SPECIALTY CHEMICALS CORP

Assignee(s): (std): BASF SE ; GERSTER MICHELE ; NESVADBA PETER ; CIBA SC HOLDING AG

Assignee(s): CIBA SPECIALTY CHEMICALS HOLDING INC ; CIBA SPECIALTY CHEMICALS HOLDING INC ; CIBA SPECIALTY CHEMICALS CORP ; CIBA CORP ; CIBA HOLDING INC

Inventor(s): (std): MICHELE GERSTER ; NESVADBA PETER ; PETER GERSTER MICHELE NESVADBA ; PETER NESVADBA ; GERSTER MICHELE

Inventor(s): GERSTER MICHELE NESVADBA PETER

Agent(s): FETHERSTONHAUGH AND CO; CIBA SPECIALTY CHEMICALS PATENT DEPARTMENT CORP; TYLER A

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 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: ELASTOMER RESINS, FIBERS AND FABRICS THEREOF, AND USES THEREOF

Abstract: The present invention relates to elastomeric resins, fibers made from said resins, fabrics made with said fibers, and applications and uses for the resins, fibers and fabrics. The elastomer resins of the invention provide high strength fibers and well balanced fabrics with good physical properties and chemical resistance, making them attractive for use in various applications that use elastic fibers and fabrics.

Classifications:

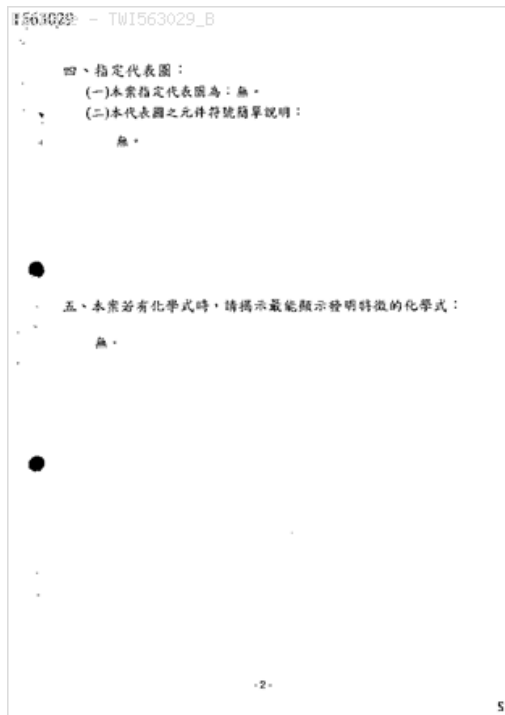
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F16L11/04 (Advanced/Invention);
D03D15/08 (Advanced/Non-invention);
C08G18/32 (Core/Invention)

CPC: C08G18/4238 D01D5/08 C08G18/3206 C08G18/4854 C08G18/664 C08G18/7671 D01F6/78 D01F6/86 C08L2666/20 Y10T428/139 Y10T428/249921 C08L75/04 D01F6/70

European: C08G18/32A2 C08G18/42C3 C08G18/48H C08G18/66M2A C08G18/76D2B C08L75/04 D01F6/70 D01F6/78 D01F6/86 M08L75/04

US: 264/103 428/221 428/36.9 525/440.01



Family:

Publication number	Publication date	Application number	Application date
CN103354817 A	20131016	CN201180067318	20111219
DE602011026565 D1	20160623	DE201160026565T	20111219
EP2655467 A1	20131030	EP20110811233	20111219
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EP3072913 A1	20160928	EP20160164481	20111219
ES2573114 T3	20160606	ES20110811233T	20111219
IN05433DN2013 A	20141205	IN2013DN05433	20130618
JP2014507508 T2	20140327	JP20130546275T	20111219
JP6152056 B2	20170621	JP20130546275T	20111219
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SG191064 A1	20130731	SG20130044193	20111219
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TW201231549 A	20120801	TW20110147607	20111221
TWI563029 B	20161221	TW20110147607	20111221
US2013273285 AA	20131017	US20110995307	20111219
US9688805 BB	20170627	US20110995307	20111219
WO12087884 A1	20120628	WO2011US65746	20111219

Priority:

US20100425320P 20101221 EP20110811233 20111219 WO2011US65746 20111219
US20110995307 20111219

Probable Assignee: LUBRIZOL ADVANCED MATERIALS INC

Assignee(s): (std): BRYSON JR JAMES E ; FISCHER DANIEL M ; LEE MOUH WAHNG ; LUBRIZOL ADVANCED MAT INC ; VEDULA RAVI R ; SPRAGUE CHRISTOPHER A

Assignee(s): LUBRIZOL ADVANCED MATERIALS INC CLEVELAND ; LUBRIZOL ADVANCED MATERIALS INC

Inventor(s): (std): BRYSON JR ; BRYSON JR JAMES E ; FISCHER DANIEL M ; LEE MOUH WAHNG ; SPRAGUE CHRISTOPHER A ; VEDULA RAVI R

Agent(s): DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN U RECHTSANWALTEN MBB; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN U RECHTSANWALTEN MBB; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWALTEN MBB; UNGRIA JAVIER; ERYN ACE; TERESAN W; HILKER CHRISTOPHER D ET AL

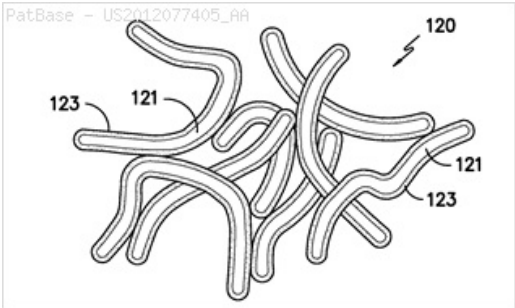
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Title: CORE/SHELL NANOFIBER NON-WOVEN

Abstract: A core/shell nanofiber non-woven containing a plurality of core/shell nanofibers where at least 70 percent of the nanofibers are bonded to other nanofibers. The core of the nanofiber contains a core **polymer** and the shell of the nanofiber contains a shell **polymer**. At least a portion of the core **polymer** interpenetrates the shell of the nanofiber and at least a portion of the shell **polymer** interpenetrates the core of the nanofiber. The process for forming a core/shell nanofiber non-woven is also disclosed.

Classifications:

International (IPC 8-9): B32B5/02 D01D5/34
D04H13/00 (Advanced/Invention)
CPC: D04H1/4391 D04H3/016 D04H3/018 D01D5/34 D01D5/00
Y10T442/621 Y10T442/622 Y10T442/641
European: D01D5/00 D01D5/34
US: 264/172.15 264/172.150S 442/346 442/346P 442/347 442/347S
442/364 442/364S



Family:

Publication number	Publication date	Application number	Application date
US2012077405 AA	20120329	US20100893046	20100929

Priority:

US20100893046 20100929

Probable Assignee: MILLIKEN AND CO
Assignee(s): (std): SCRIVENS WALTER A ; ZHOU HAO
Assignee(s): MILLIKEN AND CO
Inventor(s): (std): SCRIVENS WALTER A ; ZHOU HAO

Title: TREATED POLYOXYMETHYLENE FIBERS FOR USE IN STRUCTURAL MATRICES

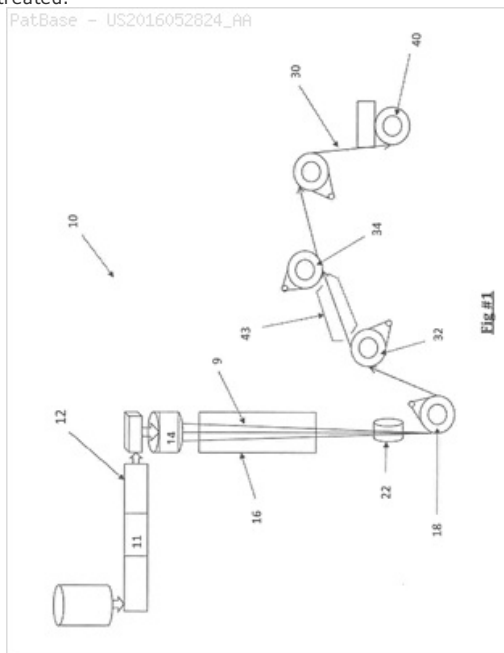
Abstract: Construction materials are described that contain polyoxymethylene fibers. The polyoxymethylene fibers are treated with a sizing composition that improves dispersibility. In addition to improving dispersibility, the sizing composition improves various physical properties of the resulting hardened structural material. The sizing composition, for instance, can increase impact resistance, flexural strength, compressive strength, and/or residual strength in comparison to an identical construction material containing polyoxymethylene fibers that are untreated.

Classifications:

International (IPC 8-9): C04B16/06 C04B24/00 C04B7/02
C08G10/06 D04H1/42 (Advanced/Invention)

CPC: C04B16/0675 C04B28/02 D01F6/66 D01F6/94 D06M13/513
D06M15/643 D06M2101/30 C04B2111/00715

US: 428/391 428/394 524/6

**Family:**

Publication number	Publication date	Application number	Application date
US2016052824 AA	20160225	US20150832289	20150821
WO16032893 A1	20160303	WO2015US46294	20150821

Priority:

US20140041400P 20140825 US20150832289 20150821

Probable Assignee: TICONA GMBH

Assignee(s): (std): CHAKRABARTY KAUSHIK ; HERSCHKE LAURENT ; KARANDIKAR ARVIND ; MCILROY DAVID ; TICONA GMBH

Inventor(s): (std): CHAKRABARTY KAUSHIK ; HERSCHKE HATTERSHEIM ; HERSCHKE LAURENT ; KARANDIKAR ARVIND ; MCILROY DAVID ; MCLLORY DAVID

Agent(s): CASSIDY TIMOTHY A

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: NANOFIBER NON-WOVENS CONTAINING PARTICLES

Abstract: A nano-fiber non-woven comprising a plurality of thermoplastic nano-fibers and a plurality of particles. At least 50 percent of the particles are positioned adjacent a surface of the nanofibers and at least 70 percent of the nanofibers are fused to other nanofibers within the nano-fiber non-woven. A process for making the nano-fiber non-woven is also disclosed.

Classifications:

International (IPC 8-9): D04H13/00 (Advanced/Invention)

CPC: B32B5/022 B32B5/26 B32B2262/02 B32B2264/02

B32B2264/10 B32B2307/724 B32B2307/7265 D04H3/016 D04H1/413

D04H1/4382 D04H3/007 D04H3/009 D04H3/011 Y10T442/626

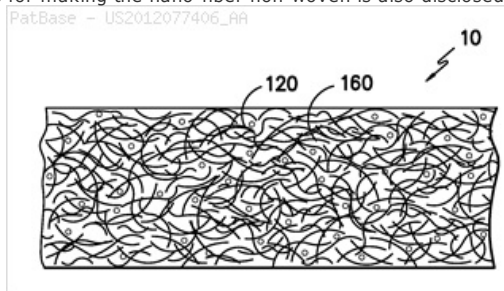
Y10T442/698 Y10T442/699

European: D04H1/413 D04H1/4382 D04H3/007 D04H3/009

D04H3/011 D04H3/016

US: 442/351 442/351P 442/416 442/416S 442/417 442/417S

PatBase - US2012077406_AA



Family:

Publication number	Publication date	Application number	Application date
US2012077406 AA	20120329	US20100893028	20100929

Priority:

US20100893028 20100929

Probable Assignee:

MILLIKEN AND CO

Assignee(s): (std):

SCRIVENS WALTER A ; ZHOU HAO

Assignee(s):

MILLIKEN AND CO

Inventor(s): (std):

ZHOU HAO ; SCRIVENS WALTER A

Title: ARTICLES MADE FROM THERMOPLASTIC POLYURETHANES WITH CRYSTALLINE CHAIN ENDS

Abstract: The present invention relates to articles made from thermoplastic polyurethane (TPU) compositions that have crystalline chain ends. The TPU compositions used to make the articles of the invention can provide reduced stickiness and/or tackiness, while maintaining other desirable physical properties, leading to significantly improved handling and processability.

Classifications:

International (IPC 8-9): C08G18/28 C08G18/32 C08G18/40 C08G18/42 C08G18/44 C08G18/48 C08G18/66 C08G18/76

C08J5/18 C08L23/00 C08L23/06 C08L75/04 C08L75/08 D01F6/70 D01F6/88 (Advanced/Invention);

D01F6/88 (Advanced/Non-invention)

CPC: C08G18/2825 C08G18/3206 C08G18/4238 C08G18/44 C08G18/4854 C08G18/664 C08G18/6674 C08L75/08

C08G18/2805 C08L23/06 C08J5/18 D01F6/70 C08J2375/08 C08J2423/06 C08G18/7657

US: 428/221 428/36.9 442/181 442/304 442/327 525/130

Family:

Publication number	Publication date	Application number	Application date
CA2910312 AA	20151022	CA20142910312	20140521
CN105229049 A	20160106	CN201480029324	20140521
EP2999728 A1	20160330	EP20140732724	20140521
IN09994DN2015 A	20160325	IN2015DN09994	20151026
KR20160010610 A	20160127	KR20157035966	20140521
TW201506082 A	20150216	TW20140118034	20140522
US2016083540 AA	20160324	US20140890171	20140521
WO14189993 A1	20141127	WO2014US38879	20140521

Priority:

US20130826096P 20130522

US20140890171 20140521

WO2014US38879 20140521

Probable Assignee: LUBRIZOL ADVANCED MATERIALS INC

Assignee(s): (std): LUBRIZOL ADVANCED MAT INC

Assignee(s): LUBRIZOL ADVANCED MATERIALS INC ; STEINMETZ BRYCE W ; MAKAL UMIT G ; DAY ROGER W ; LU QIWEI

Inventor(s): (std): DAY ROGER W ; LU QI WEI ; LU QIWEI ; MAKAL UMIT G ; Q LU ; STEINMETZ BRYCE W

Inventor(s): QLU

Agent(s): NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BRADLEY JOSEPHINE MARY; HILKER CHRISTOPHER D ET AL

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

Title: ELASTOMERIC DENTAL FLOSS

Abstract: Described herein are dental floss compositions comprising an elastomeric matrix containing one or more particles, and methods of making and using the same.

Classifications:

International (ipc 8-9): A61C A61C15/00 A61C15/04 A61K8/02

A61K8/90 A61Q11/00 D01F6/46 (Advanced/Invention);

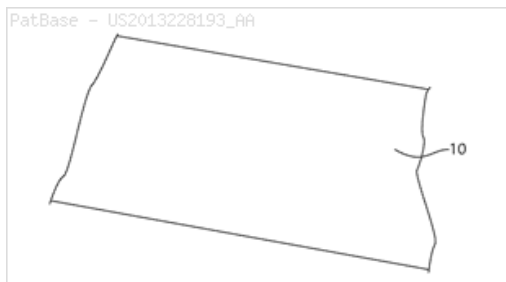
A61C15/04 (Core/Invention)

International (ipc 1-7): A61C15/04

CPC: A61C15/041 A61K8/0283 A61K8/90 A61Q11/00

European: A61C15/04B

US: 132/321



Family:

Publication number	Publication date	Application number	Application date
AR081308 AA	20120808	AR2010P104322	20101123
AU2010363325 AA	20120510	AU20100363325	20101105
AU2010363325 BB	20140828	AU20100363325	20101105
BR112013011202 A2	20161101	BR20131111202	20101105
CA2816956 AA	20130503	CA20102816956	20101105
CA2816956 C	20160503	CA20102816956	20101105
CN103327929 A	20130925	CN201080069983	20101105
CN103327929 B	20160413	CN201080069983	20101105
CO6741168 A2	20130830	CO20130136186	20130605
DE602010043915 D1	20170907	DE201060043915T	20101105
EP2635234 A1	20130911	EP20100779163	20101105
EP2635234 B1	20170726	EP20100779163	20101105
IN03302DN2013 A	20160415	IN2013DN03302	20130412
JP2013544553 T2	20131219	JP20130533835T	20101105
JP5603501 B2	20141008	JP20130533835T	20101105
MX2013004496 A1	20130628	MX20130004496	20101105
MY161460 A	20170414	MY20130001434	20101105
RU2013125752 A	20141210	RU20130125752	20101105
RU2572742 C2	20160120	RU20130125752	20101105
SG189205 A1	20130628	SG20130024229	20101105
TH128713 A	20131024	TH20131002390	20101105
TW201219016 A	20120516	TW20100140278	20101123
TWI473599 B	20150221	TW20100140278	20101123
US2013228193 AA	20130905	US20100883451	20101105
US8967161 BB	20150303	US20100883451	20101105
WO12060843 A1	20120510	WO2010US55667	20101105
ZA201303170 A	20160928	ZA20130003170	20130430

Priority:

EP20100779163 20101105 WO2010US55667 20101105 US20100883451 20101105
ZA20130003170 20130430 CO20130136186 20130605

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s): (std): COLGATE PALMOLIVE CO ; FOCASSIO PAULO ; FONTANA JOSE EDER ; WONG CHI SHING

Assignee(s): KOLGEJT PALMOLIV KOMPANI ; COLGATE PALMOLIVE CO NEW YORK ; COLGATE PALMOLIVE COMPANY

Inventor(s): (std): CHI SHING WONG ; FOCASSIO PAULO ; FOKASSIU PAULO ; FONTANA JOSE EDER ; FONTANA ZHOZE EHER ; HUANG ZHICHENG ; VONG CHI SHING ; WONG CHI SHING

Inventor(s): WONG CHI SHING WARREN ; JOSE EDER FONTANA ; PAULO FOCASSIO

Agent(s): FB RICE; GRIFFITH HACK; SMART AND BIGGAR; SILVANA MARIA LOPEZ DIAZ; WUESTHOFF AND WUESTHOFF PATENTANWALTE PARTG MBB; JENKINS PETER DAVID; WIBBELMANN JOBST; ANNE LOUISE; HEBLE NIKHIL A

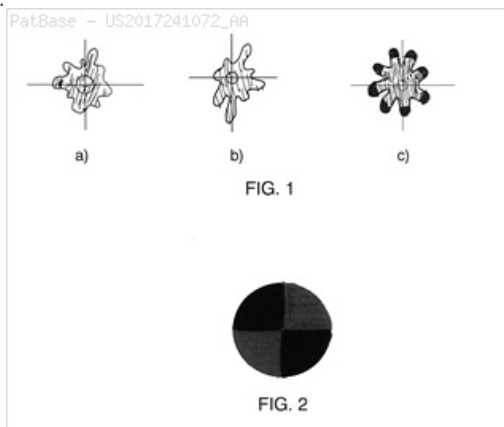
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY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

Title: FIBER FORMING COMPOSITIONS, FIBERS AND METHODS FOR PRODUCTION

Abstract: Compositions especially suitable for forming fibers and films having good elasticity and relatively high modulus are disclosed. Surprisingly, compositions including a styrenic block copolymer having a relatively high melt flow rate, and a detackifier, and optionally, but preferably in some embodiments a polyolefin (co)polymer, and/or polystyrene polymer, and/or a softener have good draw down performance and are processable into fibers having low tack, relatively high modulus and tensile strength. The fibers produced from the composition can be processed easily and are useful to manufacture articles such as fabrics, both woven and non-woven, webs, threads, and yarns. In various embodiments, unique fiber structures are produced having low tack and desirable elasticity.

Classifications:

International (IPC 8-9): C08L25/06 C08L53/02 D01F6/28 D01F6/42 D06M15/256 D06M15/643 (Advanced/Invention)
CPC: D06M15/256 D01F6/42 D06M15/643 D06M2200/40 D01D5/253 D01F1/10 D01F6/56 D02G3/00 D06M15/507 D06M15/59 D06M2101/20



Family:

Publication number	Publication date	Application number	Application date
US2017241072 AA	20170824	US20170435810	20170217
WO17143167 A1	20170824	WO2017US18338	20170217

Priority:

US20160297323P 20160219 US20170435810 20170217

Probable Assignee: TEKNOR APEX CO

Assignee(s): (std): TEKNOR APEX CO

Inventor(s): (std): WORLEY II DARNELL C ; LATULIPPE CHRIS ; BAHK KUSHAL ; WORLEY DARNELL C

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

Title: Dental floss with thermoplastic coating

Abstract: Improved dental flosses are provided, including a fiber core, preferably a **multifilament fiber**, and an elastomeric outer layer.

Classifications:

International (IPC 8-9): A61C15/04 A61K8/02

A61Q11/00 (Advanced/Invention);

A61C15/00 A61K8/02 A61Q11/00 (Core/Invention)

International (IPC 1-7): A61C15/00 A61C15/04 A61K7/16

CPC: A61C15/041 A61K8/02 A61Q11/00

European: A61C15/04B A61K7/16P A61K8/02 A61Q11/00
K61K201/117

US: 132/321

PatBase - US5755243_A



Family:

Publication number	Publication date	Application number	Application date
AU199733941 A1	19980114	AU19970033941	19970617
AU737982 B2	20010906	AU19970033941	19970617
BRPI9709945 A	19990810	BR1997PI09945	19970617
EP0925040 A1	19990630	EP19970930010	19970617
JP2000513962 T2	20001024	JP19980503176T	19970617
US5755243 A	19980526	US19960671064	19960627
WO9749352 A1	19971231	WO1997US10342	19970617

Priority:

US19960671064 19960627 WO1997US10342 19970617

Probable Assignee: GILLETTE CANADA CO

Assignee(s): (std): ANGLIN DAVID ; CASTILLO BRAD ; CHIANG CASPER ; GILLETTE CANADA ; GILLETTE CANADA INC ; ROBERTS MICHAEL F ; SPENCER JEAN

Assignee(s): GILLETTE CANADA CO

Inventor(s): (std): ANGLIN DANVID ; ANGLIN DAVID ; BRAD CASTILLO ; CASPER CHIANG ; CASTILLO BRAD ; CHIANG CASPER ; DANVID ANGLIN ; JEAN SPENCER ; MICHAEL F ROBERTS ; ROBERTS MICHAEL F ; SPENCER JEAN ; ROBERTS MICHAEL

Inventor(s): DAVID ANGLIN

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

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

Title: BICOMPONENT SPANDEX WITH REDUCED FRICTION

Abstract: Disclosed herein are spandex fibers having reduced friction. The spandex fibers have a sheath-core cross-section with a lubricating additive is included in the sheath. A fusing additive is optionally included where a coalesced multifilament spandex yarn is desired.

Classifications:

International (IPC 8-9): D01D5/34 D01F1/02 D01F1/10 D01F6/70

D01F6/94 D01F8/04 D01F8/14 D01F8/16 D02G3/02 D02G3/32

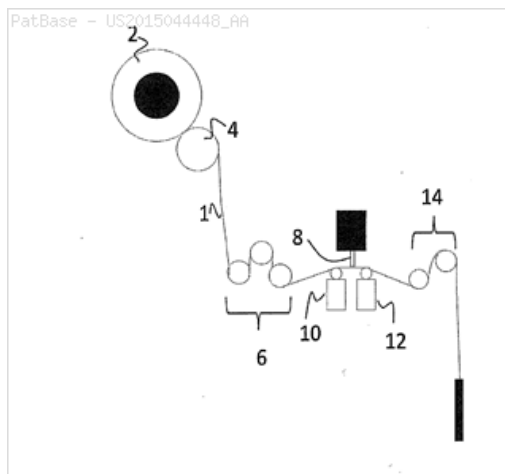
D02G3/36 (Advanced/Invention)

CPC: D02G3/36 D02G3/328 D01F1/10 D01F8/16 D01D5/04

D01D5/34 Y10T428/2927 Y10T428/2929 Y10T428/249921

European: D01F1/10 D01F8/16 D02G3/32E

US: 428/221 428/372 428/373



Family:

Publication number	Publication date	Application number	Application date
EP2729607 A2	20140514	EP20110767885	20110707
EP2729607 A4	20150527	EP20110767885	20110707
IN00198MN2014 A	20160722	IN2014MN00198	20140130
MX2014000127 A1	20140623	MX20140000127	20110707
TW201211333 A	20120316	TW20110118369	20110525
US2015044448 AA	20150212	US20110128853	20110707
WO11149734 A2	20111201	WO2011US36950	20110707
WO11149734 A3	20120329	WO2011US36950	20110707

Priority:

US20100348530P 20100526 US20110128853 20110707 WO2011US36950 20110707

Probable Assignee: INVISTA NORTH AMERICA SARL

Assignee(s): (std): INVISTA NORTH AMERICA SARL ; INVISTA TECH SARL ; INVISTA TECHNOLOGIES S R L ; SMITH STEVEN W ; INVISTA TECHNOLOGIES SRL

Assignee(s): INVISTA TECHNOLOGIES SARL ; INVISTA TECHNOLOGIES S A R L

Inventor(s): (std): SMITH STEVEN W

Inventor(s): STEVEN W SMITH

Agent(s): COCKERTON BRUCE ROGER; INVISTA TECHNOLOGIES S A R L

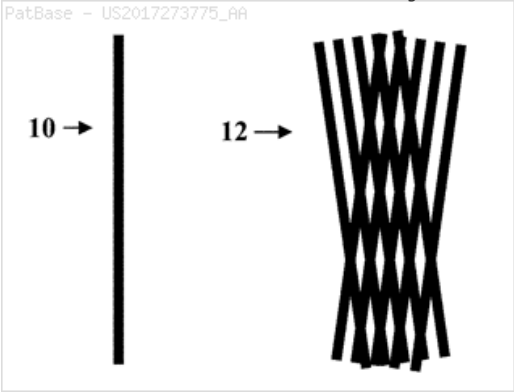
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Title: COMPLEX BRAIDED SCAFFOLDS FOR IMPROVED TISSUE REGENERATION

Abstract: Implantable medical devices and prosthesis for rapid regeneration and replacement of tissues, and methods of making and using the devices, are described. The medical devices include a complex three-dimensional braided scaffold with a **polymer** composition and structure tailored to desired degradation profiles and mechanical properties. The composite three-dimensional braided scaffolds are braided from yarn bundles of biodegradable and bioresorbable polymeric fibers and/or filaments. Monofilament fibers and/or **multifilament fibers** can be twisted/plied in different combinations to form multifilament yarns, composite multifilament yarns, or composite yarns. The medical devices are useful as both structural prosthetics taking on the function of the tissue as it regenerates and as *in vivo* scaffolds for cell attachment and ingrowth.

Classifications:

International (IPC 8-9): A61F2/00 A61F2/08 A61L27/14 A61L27/18 A61L27/50 A61L27/54 A61L27/56 A61L27/58 (Advanced/Invention)
CPC: A61F2/08 A61F2/0077 A61L27/58 A61L27/14 A61F2250/0023 A61L2430/10 A61F2250/003 A61L27/18 A61L27/50 A61L27/54 A61L27/56 A61L2300/64



Family:

Publication number	Publication date	Application number	Application date
US2017273775 AA	20170928	US20170470619	20170327
WO17165889 A2	20170928	WO2017US24342	20170327
WO17165889 A3	20171109	WO2017US24342	20170327

Priority:

US20160313246P 20160325 US20170470619 20170327

Probable Assignee: BIOREZ INC

Assignee(s): (std): BIOREZ INC

Inventor(s): (std): PETERSON DALE R ; REILLY JOSEPH W ; ROCCO KEVIN A

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

Title: STABILIZATION OF ORGANIC MATERIALS

Abstract: The invention describes a process for stabilizing an organic material against oxidative, thermal or light-induced degradation, which comprises incorporating therein or applying thereto at least a compound of the formula (I) wherein the general symbols are as defined in claim 1. The compounds of the formula I are especially useful as processing stabilizers for synthetic **polymers**.

Classifications:

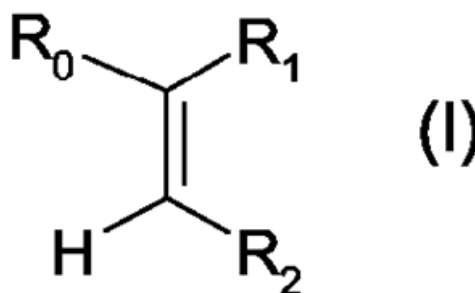
International (IPC 8-9): C07C205/42 C07C205/56 C07C233/11 C07C255/15 C07C255/23 C07C255/32 C07C255/41 C07C317/24 C07C317/32 C07C317/44 C07C323/56 C07C57/48 C07C57/60 C07C69/618 C07C69/65 C07C69/736 C07C69/773 C07C69/78 C07D295/18 C07D307/60 C07D311/12 C07D333/24 C08K5/00 C08K5/09 C08K5/101 C08K5/103 C08K5/12 C08K5/1539 C08K5/1545 C08K5/20 C08K5/315 C08K5/32 C08K5/34 C08K5/3415 C08K5/353 C08K5/375 C08K5/41 C08K5/45 C08L101/00 C08L23/00 C09K15/04 C09K15/06 C09K15/20 C09K15/22 C10M129/70 C10M129/72 C10M129/74 C10M131/12 C10M133/00 C10M133/16 C10M133/32 D01F1/10 D01F6/46 (Advanced/Invention); C07C205/42 C07C233/11 C07C69/618 C07C69/65 C07C69/78 C10M129/72 C10M129/74 C10M131/12 C10M133/16 (Advanced/Non-invention); C07C205/00 C07C233/00 C07C255/00 C07C317/00 C07C323/00 C07C57/00 C07C69/00 C07D295/00 C07D307/00 C07D311/00 C07D333/00 C08K5/00 C08L101/00 C08L23/00 C09K15/00 C10M133/00 (Core/Invention)

CPC: C08K5/315 C08K5/12 C08K5/3415 C08K5/41

European: C08K5/12 C08K5/315 C08K5/3415 C08K5/41

US: 1/1 508/247 508/247S 508/268 508/268S 508/305 508/305S 508/306 508/306S 508/447 508/447S 508/478 508/478S 508/501 508/501S 508/526 508/526S 508/551 508/551S 508/568 508/568S 524/104 524/167 524/167S 524/186 524/186S 560/104 560/104S 560/76 560/76S 564/182 564/182S

PatBase - W006024611_A3



Family:

Publication number	Publication date	Application number	Application date
CA2576808 AA	20070205	CA20052576808	20050822
CA2576808 C	20121218	CA20052576808	20050822
CN101023128 A	20070822	CN200580028970	20050822
CN101023128 B	20120222	CN200580028970	20050822
CN101649203 A	20100217	CN200910160571	20050822
CN101649203 B	20131218	CN200910160571	20050822
EP1791901 A2	20070606	EP20050779155	20050822
EP1791901 B1	20180328	EP20050779155	20050822
JP2008511576 T2	20080417	JP20070528837T	20050822
JP5566575 B2	20140806	JP20070528837T	20050822
US2008269382 AA	20081030	US20050661027	20050822
US9051448 BB	20150609	US20050661027	20050822
WO06024611 A2	20060309	WO2005EP54113	20050822
WO06024611 A3	20070426	WO2005EP54113	20050822

Priority:

EP20040104160 20040831 EP20050779155 20050822 WO2005EP54113 20050822

Probable Assignee: CIBA CORP

Assignee(s): (std): CIBA SC HOLDING AG ; CIBA SC HOLDING AG CH ; CIBA SC HOLDING CH AG ; GERSTER MICHELE ; MAEDER DIETMAR ; ROTZINGER BRUNO ; MADER DIETMAR ; BASF SE

Assignee(s): CIBA CORP ; CIBA HOLDING INC ; CIBA SPECIALTY CHEMICALS CORP ; CIBA SPECIALTY CHEMICALS HOLDING INC

Inventor(s): (std): BRUNO GERSTER MICHELE MAEDER D ; BRUNO ROTZINGER ; DIETMAR MAEDER ; MADER DIETMAR ; MICHELE GERSTER ; ROTZINGER BRUNO ; MAEDER DIETMAR ; GERSTER MICHELE

Inventor(s): GERSTER MICHELE MAEDER DIETMAR ROTZINGER BRUNO

Agent(s): FETHERSTONHAUGH AND CO; BASF IP ASSOCIATION; JOANN VILLAMIZAR CIBA PATENT DEPARTMENT CORP; OBLON MCCLELLAND MAIER AND NEUSTADT 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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: Process for the preparation of 3-aryl-benzofuran-2-ones

Abstract: The instant invention discloses a process for the preparation of compounds of formula I wherein the general symbols are as defined in claim 1, which process comprises hydrolyzing a compound of formula V wherein the general symbols are as defined in claim 1, in an aqueous solvent in the presence of an acid. The compounds of the formula V are new and useful as stabilizers for protecting organic materials, in particular **polymers** and lubricants, against oxidative, thermal or light-induced degradation.

Classifications:

International (IPC 8-9): C07D307/82 C07D307/83 C07D405/04 C07D405/06 C07D407/04 C07D409/04 C07D409/06 C07D411/04 C07D413/04 C07D417/04 C07D471/04 C07D473/00 C07D475/00 C07D487/04 C08K5/15 C08K5/1535 C08K5/34 C08K5/45 C08L101/00 C09K15/06 C09K15/18 C10L1/18 C10M129/20 C10M129/70 C10M133/38 C10M135/32 (Advanced/Invention); C10N30/00 C10N30/08 C10N30/10 C10N40/00 C10N40/04 C10N40/12 C10N40/25 C10N50/10 (Advanced/Non-invention); C07D307/00 C07D405/00 C07D409/00 C08K5/00 C08L101/00 C09K15/00 C10M129/00 (Core/Invention)

International (IPC 1-7): C0747/02 C07D307/78 C07D307/82 C07D307/83 C07D405/04 C07D405/06 C07D407/00 C07D407/04 C07D409/04 C07D409/06 C07D411/04 C07D413/04 C07D417/04 C07D471/04 C07D473/00 C07D475/00 C07D487/04 C08K5/15 C08K5/1535 C08K5/34 C08K5/45 C08L101/00 C09K15/06 C09K15/18 C10L1/18 C10M129/20 C10M129/70 C10M133/38 C10M135/32 C10N30/00 C10N30/08 C10N30/10 C10N40/00 C10N40/04 C10N40/12 C10N40/25 C10N50/10

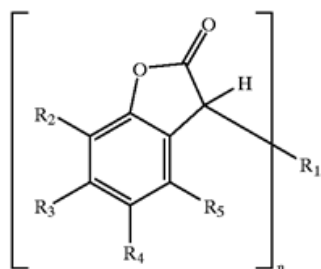
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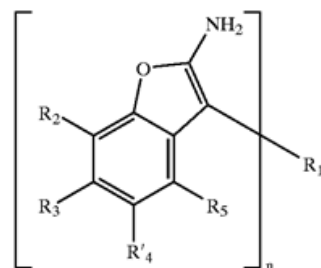
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PatBase - US2002115855_AA

(I)



(V)



Family:

Publication number	Publication date	Application number	Application date
AT299874 E	20050815	AT20010810629T	20010628
CA2352679 AA	20020107	CA20012352679	20010705
CA2352679 C	20101005	CA20012352679	20010705
DE60112009 D1	20050825	DE20016012009	20010628
DE60112009 T2	20060608	DE20016012009T	20010628
EP1170296 A2	20020109	EP20010810629	20010628
EP1170296 A3	20020724	EP20010810629	20010628
EP1170296 B1	20050720	EP20010810629	20010628
JP2002097184 A2	20020402	JP20010208075	20010709
JP4880137 B2	20120222	JP20010208075	20010709
US2002115855 AA	20020822	US20010899450	20010705
US6586606 BB	20030701	US20010899450	20010705

Priority:

EP20000810595 20000707 EP20010810629 20010628 CA20012352679 20010705

Probable Assignee: CIBA SPECIALTY CHEMICALS CORP

Assignee(s): (std): CIBA SC HOLDING AG

Assignee(s): CIBA SPECIALTY CHEMICALS HOLDING INC ; CIBA SPECIALTY CHEMICALS HOLDING INC BASEL ; CIBA SPECIALTY CHEM HOLDING INC ; CIBA SPECIALTY CHEMICALS CORP ; CIBA SPECIALTY CHEMICALS HOLDING INC ; CIBA SPECIALTY CHEMICALS HOLDING INC BASEL ; DUBS PAUL ; GERSTER MICHELE ; CIBA HOLDING INC

Inventor(s): (std): DUBS PAUL ; GERSTER MICHELE ; GERSTER MICHILE

Agent(s): FETHERSTONHAUGH AND CO

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

Title: METHODS FOR MAKING FIBER REINFORCED POLYSTYRENE COMPOSITES

Abstract: The present invention is directed generally processes for making fiber reinforced polystyrene compositions including from 5 to 50 wt percent organic fiber, and from 0 to 60 wt percent inorganic filler in a matrix of an atactic polystyrene based **polymer**. The process includes extrusion compounding the atactic polystyrene based **polymer**, the organic fiber, and the inorganic filler to form a fiber reinforced polystyrene resin, which is subsequently molded to form an article with a flexural modulus of at least 350,000 psi, and that exhibits ductility during instrumented impact testing. Extrusion compounding processes whereby the organic fiber is continuously fed to the extruder hopper by unwinding from one or more spools, and uniformly dispersing the fiber in the composites via twin screws having a combination of conveying and kneading elements are also disclosed. The extrusion compounding process and the molding process may also be fluidly coupled to provide an in-line compounding and molding process for producing the fiber reinforced polystyrene composites. Colored fiber may also be optionally incorporated into the process to yield articles with a cloth-like appearance. The processes for making fiber reinforced polystyrene compositions are suitable for making molded articles including, but not limited to, household appliances, automotive parts, and boat hulls.

Classifications:

International (IPC 8-9): C08F12/08 C08F8/00

C08J5/04 (Advanced/Invention);

C08F12/00 C08F8/00 C08J5/04 (Core/Invention)

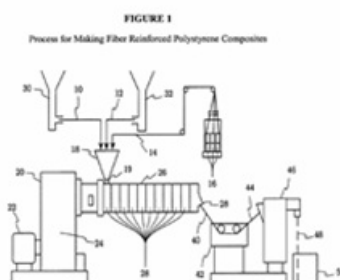
CPC: C08K3/013 C08J5/046 C08J2325/04

European: C08J5/04L M08J325/04 M08K3/00P5

US: 525/177 525/177P

PatBase - US2008081876_AA

Patent Application Publication Apr. 3, 2008 Sheet 1 of 8 US 2008/081876 A1



Family:

Publication number	Publication date	Application number	Application date
US2008081876 AA	20080403	US20060542519	20061003
WO08042090 A2	20080410	WO2007US19874	20070911
WO08042090 A3	20080710	WO2007US19874	20070911

Priority:

US20060542519 20061003

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL RES AND ENG CO ; LUSTIGER ARNOLD ; MATUSZEK WALTER T ; MATUSZEK WALTER THOMAS

Assignee(s): EXXONMOBIL RESEARCH AND ENGINEERING CO ; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY ; EXXON MOBIL CORP

Inventor(s): (std): MATUSZEK WALTER T ; MATUSZEK WALTER THOMAS ; LUSTIGER ARNOLD

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

Title: HIGHLY SHRINKABLE FIBER

Abstract: A highly shrinkable fiber composed of nylon-MXD6 **polymer** and nylon-6 **polymer**, characterized in that a weight ratio therebetween is in the range of 35:65 to 70:30, and that each thereof exhibits a breaking strength of 4.00 cN/dtex or greater. Preferably, the weight ratio between nylon-MXD6 **polymer** and nylon-6 **polymer** of the highly shrinkable fiber is in the range of 45.55 to 55:45. The highly shrinkable fiber exhibits a high shrinkage ratio in boiling water, so that when the highly shrinkable fiber is used in a woven fabric, there can be realized a high density.

Classifications:

International (IPC 8-9): C08L77/00 C08L77/12 D01F6/60 D01F6/90 (Advanced/Invention); C08L77/00 D01F6/88 (Core/Invention)

CPC: Y10T428/29 Y10T428/2913 Y10T428/2915 Y10T428/2929 Y10T428/2931 C08L77/02 C08L77/06 C08L2205/02 D01F6/90

European: C08L77/02 C08L77/06 D01F6/90 M08L205/02 M08L77/02 M08L77/06

US: 428/357 428/364 428/365 428/373 428/374 525/420 525/432 525/432P

Family:

Publication number	Publication date	Application number	Application date
CN101646812 A	20100210	CN200780052618	20070418
CN101646812 B	20130116	CN200780052618	20070418
KR101359501 B1	20140206	KR20097022566	20070418
KR20100016009 A	20100212	KR20097022566	20070418
US2010137527 AA	20100603	US20070596160	20070418
US8293364 BB	20121023	US20070596160	20070418
WO08129678 A1	20081030	WO2007JP58471	20070418

Priority:

WO2007JP58471 20070418

Probable Assignee: KB SEIREN LTD

Assignee(s): (std): HARA YOSHITOMO ; IWAMOTO HAYATO ; KB SEIREN LTD ; KB SEIREN LTD JP ; SAITO MASAHARU ; UEDA HIDEO

Inventor(s): (std): HARA YOSHITOMO ; HAYATO IWAMOTO ; HIDEO UEDA ; IWAMOTO HAYATO ; MASAHARU SAITO ; SAITO MASAHARU ; UEDA HIDEO ; YOSHITOMO HARA

Agent(s): KIRSCHSTEIN ISRAEL SCHIFFMILLER AND PIERONI PC ; KIRSCHSTEIN 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 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 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: FLAME RETARDING AND FIRE BLOCKING FIBER BLENDS

Abstract: Flame retarding and fire barrier structure comprising a blend of carbonaceous fibers and natural and/or synthetic fibers. The carbonaceous fibers have a nitrogen content of 5 to 35 percent, an LOI value of greater than 40 and are derived from stabilized acrylic fibers.

Classifications:

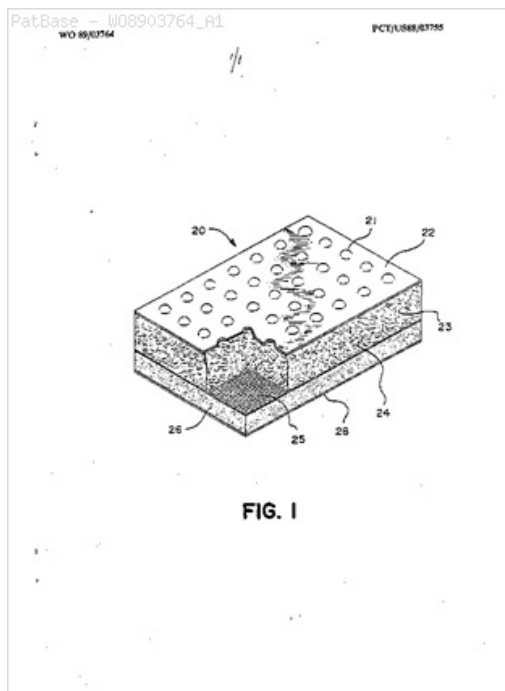
International (ipc 8-9): B29C43/02 B29C43/18 B32B27/04 B32B5/00 B32B7/00 B32B7/02 B32B9/00 C08J5/10 C08K7/00 C08K7/02 C08K7/06 C08L101/00 C09K21/14 D04H1/42 E04B1/94 (Advanced/Invention); B29C43/02 B29C43/18 B29K105/06 B29K507/04 B32B27/04 B32B7/02 B32B9/00 C08K7/00 C08L101/00 E04B1/94 (Advanced/Non-invention); B29C43/02 B29C43/18 B32B27/04 B32B5/00 B32B7/00 B32B7/02 B32B9/00 C08J5/04 C08K7/00 C08L101/00 C09K21/00 D04H1/42 E04B1/94 (Core/Invention); B32B (Subclass/Invention)

International (ipc 1-7): A62D5/00 B27N9/00 B29C43/02 B29C43/18 B32B27/04 B32B3/12 B32B5/00 B32B7/00 B32B7/02 B32B9/00 B32B9/04 C03C13/06 C08J5/00 C08K7/02 C08K7/06 C08L101/00 C09K21/02 C09K21/14 D02G3/00 D03D13/00 D03D15/12 D04H1/00 D04H1/42 D04H3/00 D06N7/00 E04B1/94 E04C2/00

CPC: Y10S428/92 Y10S428/921 Y10T428/29 Y10T428/2918 Y10T428/2922 Y10T428/2925 Y10T428/30 Y10T428/2909 Y10T428/2913 Y10T428/2927 Y10T428/2929 D02G3/443 Y10T428/2907 Y10T428/249921 Y10T428/249922 Y10T442/63 Y10T442/632 Y10T442/696 Y10T428/24994 Y10T428/31504 Y10T428/31678 Y10T442/697 Y10T442/699 Y10T428/249943 Y10T428/249945 Y10T428/31786 D04H1/413 D04H1/4242 D04H1/43 D04H1/4382

European: D02G3/44C D04H1/42

US: 428/221 428/222 428/224 428/284 428/285 428/286 428/288 428/289 428/290 428/292 428/293 428/297.4 428/298.4 428/299.1 428/357 428/361 428/362 428/364 428/367 428/369 428/371 428/372 428/373 428/408 428/411.1 428/457 428/480 428/920 428/921 442/354 442/356 442/414 442/415 442/417

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

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AR244359 A1	19931029	AR19880312334	19881028
AT87984 E	19930415	AT19880202360T	19881021
AU198824449 A1	19890504	AU19880024449	19881027
AU613972 B2	19910815	AU19880024449	19881027
BRPI8807294 A	19900327	BR1988PI07294	19881019
CA1332855 A1	19941101	CA19880580987	19881021
CN1030001 C	19951011	CN19881007377	19881028
CN1032774 A	19890510	CN19881007377	19881028
DE3880076 D1	19930513	DE19883880076	19881021
DE3880076 T2	19930722	DE19883880076T	19881021
DK322689 A	19890628	DK19890003226	19890628
DK322689 A0	19890628	DK19890003226	19890628
EP0314244 A2	19890503	EP19880202360	19881021
EP0314244 A3	19900314	EP19880202360	19881021
EP0314244 B1	19930407	EP19880202360	19881021
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FI893133 A	19890627	FI19890003133	19890627
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IL88174 A1	19940412	IL19880088174	19881026
JP1503243 T2	19891102	JP19880509375T	19881019
JP7317173 A2	19951205	JP19950125506	19950417
KR19897001347 A	19891220	KR19897001153	19881019
KR920001037 B1	19920201	KR19890071153	19890624
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MX167447 B	19930323	MX19880013585	19881027
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US4950540 A	19900821	US19890378727	19890711
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Priority:

US19870114324 19871028	US19880206634 19880614	JP19880509375 19881019
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Probable Assignee: DOW CHEMICAL CO

Assignee(s): (std): DOW CHEMICAL CO

Assignee(s): DOW CHEMICAL COMPANY THE ; DOW CHEMICAL COMPANY (THE) ; HALE FRANK W ; MCCULLOUGH FRANCIS P JR ; HALL DAVID M ; DOW CHEMICAL CO THE ; FRANK W HALE ; FRANCIS P MCCULLOUGH JR ; THE DOW CHEMICAL COMPANY ; THE DOW CHEMICAL CO ; THE DOW CHEMICAL CO MIDLAND MICH US ; SNELGROVE R VERNON ; R VERNON SNELGROVE ; DAVID M HALL ; DOW CHEM CO ; DOW CHEM CO THE

Inventor(s): (std): SNELGROVE R VERNON ; SNELGROVE R UERNON ; SNELGROVE R ; R VERNON SNELGROVE ; SNELOGROVE R V ; MCULLOUGH FRANCIS P JR ; MCCULLOUGH JR FRANCIS P ; MCCULLOUGH JR ; MCCULLOUGH FRANCIS P ; MCCULLOGH FRANCIS P JR ; HALL DAVID M ; HALE VERNON ; GIROUX JEANNE M ; FRANCIS P MCCULLOUGH JR ; FRANCIS P MCCULLOUGH ; DEBITSUDO EMU HOORU ; DAVID M HALL ; AARU BAANON SUNERUGUROOBU ; MCCULLOUGH FRANCIS P JR ; HALE FRANK W ; FURANSHISU PII MAKUKUROOGU JIY ; FURANKU DABURIYUU HEIRU ; FRANK W HALE ; FRANK W

Inventor(s): FRANCIS P MCULLOUGH JR ; VERNON HALE ; MCCULLOGH FRANCIS P ; FURANSHISU PII MAKUKUROOGU JIYUNIA ; HALE FRANK W LAKE JACKSON TEXAS 77566 US ; HALL DAVID M AUBURN ALABAMA 36830 US ; MCCULLOUGH JR FRANCIS P LAKE JACKSON TEXAS... ; SNELGROVE R VERNON DAMON TEXAS 77430 US ; R UERNON SNELGROVE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; EITAN PEARL LATZER AND COHEN ZEDEK

Designated states: AT BE BR CH DE DK ES FI FR GB GR IT JP KR LI LU NL NO SE

Title: RADIO FREQUENCY CURE OF THERMOSET-RECEPTOR COMPOSITIONS

Abstract: A method of forming a cured thermoset composition by applying radio signals having a frequency of about 1 to 100 MHz to a composition comprising a major portion of thermoset and a receptor, said receptor having a dissipation factor of about 0.1 or greater and a dielectric constant of at least 0.1 or greater, said receptor selected from the group consisting of alkali or alkaline earth metal sulfate salts, aluminum trihydrate, quaternary ammonium salts, phosphonate compounds, phosphate compounds, polystyrene sulfonate sodium salts or mixtures thereof, said method comprising the steps of: (a) applying said composition to a substrate; (b) applying radio signals to the composition deposited on the substrate; and (c) dissipating the radio signals received by the receptor as thermal energy in an amount effective to cure the composition to a thermoset bond.

Classifications:

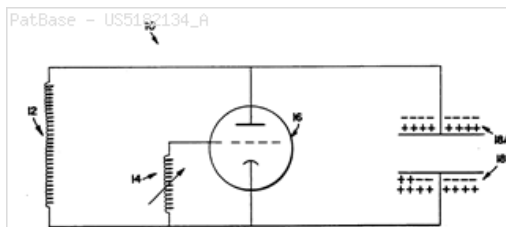
International (IPC 8-9): B29C65/36 C08J5/18 C08K5/00 C08L25/18 C09J5/06 C09J7/00 (Advanced/Invention); B29C65/34 C08J5/18 C08K5/00 C08L25/00 C09J5/06 C09J7/00 (Core/Invention)

International (IPC 1-7): B05D3/02 B29C35/08 B32B27/00 C08J5/18 C08K11/00 C09J5/06

CPC: B29C65/3676 B29C65/3684 C08L25/18 B29C65/3612 B29C65/3616 B29C65/3644 C08J5/18 C08K5/0025 C09J5/06 B29C66/7212 B29C66/7394 B29C66/43441 B29C66/73921 B29C66/73941 B29C66/729 B29C66/73751 B29C66/472 B29C66/43 B29C66/71 B29C66/112 B29C66/1122 B29C66/114 C09J7/10

European: B29C65/36 B29C66/71 C08J5/18 C08K5/00P2 C08L25/18 C09J5/06 C09J7/00

US: 156/273.3 156/273.9 156/275.5 156/275.7 427/387 427/388.1 427/391 427/393 427/543 427/58

**Family:**

Publication number	Publication date	Application number	Application date
DE69124111 D1	19970220	DE19916024111	19911119
DE69124111 T2	19970807	DE19916024111T	19911119
EP0559794 A1	19930915	EP19920901689	19911119
EP0559794 B1	19970108	EP19920901689	19911119
US5182134 A	19930126	US19920826620	19920128
WO9209415 A1	19920611	WO1991US08657	19911119

Priority:

US19900619248 19901128 WO1991US08657 19911119 US19920826620 19920128

Probable Assignee: FULLER H B LICENSING FINANC

Assignee(s): (std): FULLER H B LICENSING FINANC

Assignee(s): H B FULLER LICENSING AND FINANCING INC ; H B FULLER LICENSING AND FINANCING INC WILMINGTON DEL US ; HB FULLER LICENSING AND FINANCING INC

Inventor(s): (std): SATO NORMAN ; SATO NORMAN J

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

Title: FIBER REINFORCED POLYSTYRENE COMPOSITES

Abstract: The present invention is directed generally to fiber reinforced polystyrene compositions, and the beneficial mechanical properties imparted by such compositions. The fiber reinforced polystyrene compositions include from 5 to 50 wt percent organic fiber, and from 0 to 60 wt percent inorganic filler in a matrix of an atactic polystyrene based **polymer**. Lubricant may also be optionally incorporated into the composition to assist with fiber pullout. Colored fiber may also be optionally incorporated into the composition to yield an article with a cloth-like appearance. Articles molded from these fiber reinforced polystyrene compositions have a flexural modulus of at least 350,000 psi, and exhibit ductility during instrumented impact testing. The fiber reinforced polystyrene compositions are suitable for making molded articles including, but not limited to, household appliances, automotive parts, and boat hulls.

Classifications:

International (IPC 8-9): C08F12/08 C08K3/26 (Advanced/Invention);
C08F12/00 C08K3/00 (Core/Invention)

CPC: C08K3/013 C08L25/06 C08L67/02

European: C08K3/00P5 C08L25/06 M08L67/02

US: 524/425

Family:

Publication number	Publication date	Application number	Application date
US2008081862 AA	20080403	US20060542521	20061003
WO08042088 A1	20080410	WO2007US19868	20070913

Priority:

US20060542521 20061003

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL RES AND ENG CO ; LUSTIGER ARNOLD ; MATUSZEK WALTER T

Assignee(s): EXXONMOBIL RESEARCH AND ENGINEERING CO ; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY ; EXXON MOBIL CORP

Inventor(s): (std): LUSTIGER ARNOLD ; MATUSZEK WALTER T

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

Title: FIBER PELLETS, METHOD OF MAKING, AND USE IN MAKING FIBER REINFORCED POLYPROPYLENE COMPOSITES

Abstract: The present disclosure is directed generally to synthetic organic fiber pellets, methods for making such pellets, and methods of using such pellets for making fiber reinforced polypropylene composite resins. The synthetic organic fiber pellets include at least 80 wt percent of a synthetic organic fiber chosen from polyalkylene terephthalates, polyalkylene naphthalates, polyamides, polyolefins, polyacrylonitrile, and combinations thereof, and from 2 to 20 wt percent of one or more waxes. The synthetic organic fiber pellets are produced using a pelleting press process. Also provided is a method for making fiber reinforced polypropylene composite pellets including feeding into a compounding extruder at least 25 wt percent polypropylene based **polymer**, from 5 to 60 wt percent of synthetic organic fiber in the form of the synthetic organic fiber pellets, and from 0 to 60 wt percent inorganic filler; extruding the polypropylene based resin, the fiber pellets, and the inorganic filler through the compounding extruder to form a fiber reinforced polypropylene composite melt; cooling the fiber reinforced polypropylene composite melt to form a solid fiber reinforced polypropylene composite; and pelletizing the solid fiber reinforced polypropylene composite to form fiber reinforced polypropylene composite pellets; wherein an article molded from the composite pellets has a flexural modulus of at least 2.07 GPa and exhibits ductility during instrumented impact testing. Articles molded from the fiber reinforced polypropylene composite pellets find application as automotive parts, household appliance parts, or boat hulls.

Classifications:

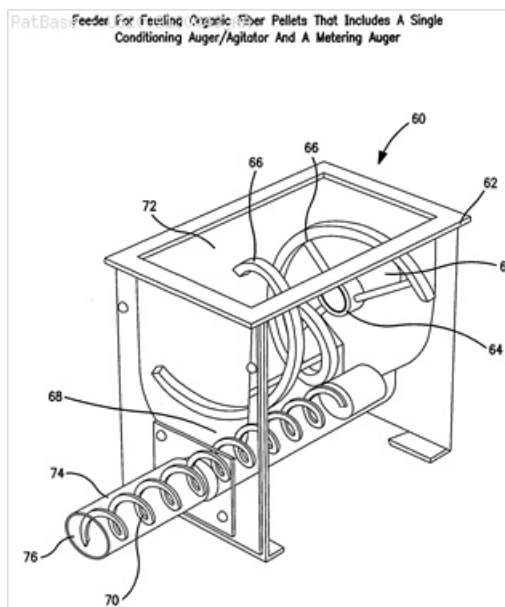
International (IPC 8-9): B29B9/06 B32B5/02 C08K5/10 C08L23/12 C08L23/20 C08L33/20 C08L67/02 C08L77/00 D01D5/30 (Advanced/Invention);

B29B9/02 B32B5/02 C08K5/00 C08L23/00 C08L33/00 C08L67/00 C08L77/00 (Core/Invention)

CPC: B29B9/06 C08L23/02 B29B9/14 B29K2023/12 C08J5/046 C08J2323/12 C08L23/04 C08L23/10 C08L23/16 C08L23/20 C08L33/20 C08L67/02 C08L77/00 C08L91/06 C08L2203/12 Y10T428/2913 Y10T428/2964 Y10T428/2967 Y10T428/298

European: B29B9/14 C08J5/04L C08L23/02 C08L23/10 C08L33/20 C08L67/02 C08L77/00 L29K23/12 M08J323/12 M08L203/12 M08L23/04 M08L23/10 M08L23/16 M08L23/20 M08L91/06

US: 264/118 264/123 264/141 264/142 264/142S 264/143 264/148 264/172.11 264/211 264/40.5 425/331 425/365 425/382.00R 425/382R 428/364 428/392 428/394 428/401 428/401P 524/277 524/277S 524/300 524/300S 524/35 524/35S 524/543 524/543S 524/565 524/565S 524/579 524/579S 524/583 524/583S 524/599 524/599S 524/604 524/604S 524/605 524/605S



Family:

Publication number	Publication date	Application number	Application date
US2009130443 AA	20090521	US20080291897	20081114
US8211341 BB	20120703	US20080291897	20081114

Priority:

US20070003442P 20071116 US20080291897 20081114

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXONMOBIL RES AND ENG CO ; LUSTIGER ARNOLD

Assignee(s): EXXON MOBIL CORP ; EXXONMOBIL RESEARCH AND ENGINEERING CO ; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY

Inventor(s): (std): LUSTIGER ARNOLD

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

Title: 3-ARYLBENZOFURANONES WITH ELECTRON-WITHDRAWING SUBSTITUENTS AS STABILIZERS

Abstract: The invention describes novel compounds of the formula (I) wherein the general symbols are as defined in claim (1) and R₁ is an aromatic radical with electron withdrawing substituents, as stabilizers for protecting organic materials, in particular **polymers** and lubricants, against oxidative, thermal or light-induced degradation and as scavengers for oxidized developer in color photographic material.

Classifications:

International (IPC 8-9): C07D295/08 C07D295/14 C07D307/77 C07D307/83 C08K5/00 C08K5/15 C08K5/1535 C08L101/00 C10L1/14 C10M129/20 C10M129/70 C10M129/72 C10M129/74 C10M131/12 C10M133/24 C10M133/40 G03C1/815

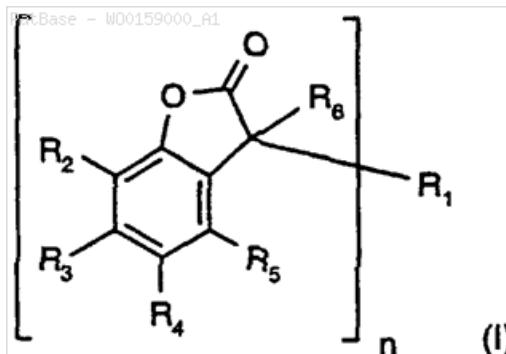
G03C7/392 (Advanced/Invention); C10N30/10 C10N40/04 C10N40/08 C10N40/12 C10N40/20 C10N40/25 (Advanced/Non-invention)

International (IPC 1-7): C07D295/08 C07D295/14 C07D307/77 C07D307/83 C07D307/87 C08K5/00 C08K5/15 C08K5/1535 C08L101/00 C10L1/14 C10M101/00 C10M129/20 C10M129/70 C10M129/72 C10M129/74 C10M131/12 C10M133/24 C10M133/40 C10N30/10 C10N40/04 C10N40/08 C10N40/12 C10N40/20 C10N40/25 G03C1/815 G03C5/54 G03C7/392

CPC: C07D307/83 C10M129/20 G03C1/8155 G03C7/39268 G03C2200/35

European: C07D307/83 C10M129/20 G03C1/815C G03C7/392B7D S03C200/35

US: 430/223 430/440 508/305 508/305S 52/410.7 524/107 524/111 549/304 549/304S 549/305 549/307



Family:

Publication number	Publication date	Application number	Application date
AU2001239241 AA	20010820	AU20010239241	20010207
AU200139241 A1	20010820	AU20010039241	20010207
AU200139241 A5	20010820	AU20010039241	20010207
CA2400063 AA	20020813	CA20012400063	20010207
EP1263860 A1	20021211	EP20010913787	20010207
JP2003522201 T2	20030722	JP20010558143T	20010207
US2003212170 AA	20031113	US20020203731	20020812
US6809208 BB	20041026	US20020203731	20020812
WO0159000 A1	20010816	WO2001EP01300	20010207

Priority:

EP20000810125 20000214 EP20010913787 20010207 WO2001EP01300 20010207

Probable Assignee: CIBA SPECIALTY CHEMICALS CORP

Assignee(s): (std): TINKL MICHAEL ; DOSENBACH OLIVER ; NESVADBA PETER ; ROTZINGER BRUNO ; MAEDER DIETMAR ; CIBA SC HOLDING AG ; WOLFF MARTIN

Assignee(s): CIBA SPECIALTY CHEMICALS CORP ; CIBA SPECIALTY CHEMICALS HOLDING INC ; MADER DIETMAR ; CIBA HOLDING INC

Inventor(s): (std): DOSENBACH OLIVER ; MADER DIETMAR ; MAEDER DIETMAR ; NESVADBA PETER ; NESVADBA PETER DR ; ROTZINGER BRUNO ; TINKL MICHAEL ; WOLFF MARTIN

Inventor(s): OLIVER DOSENBACH ; MARTIN WOLFF ; MICHAEL TINKL ; NESVADBA DR PETER ; DR PETER NESVADBA ; BRUNO ROTZINGER ; DIETMAR MADER

Agent(s): FETHERSTONHAUGH AND CO

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

Title: ELASTOMERIC DENTAL FLOSS

Abstract: A composition comprising a melted blend of polypropylene and an elastomeric block copolymer, and a plasticizer useful as an oral cleaning device. The elastomeric composition may be used as a dental floss.

Classifications:

International (IPC 8-9): A61C A61C15/00 A61C15/04 A61K8/02

A61K8/81 A61K8/90 A61Q11/00 C08L53/00 D01F D01F6/46

D01F6/56 D01F6/94 (Advanced/Invention);

D01F6/94 (Core/Invention);

A61C15/04 (Core/Non-invention);

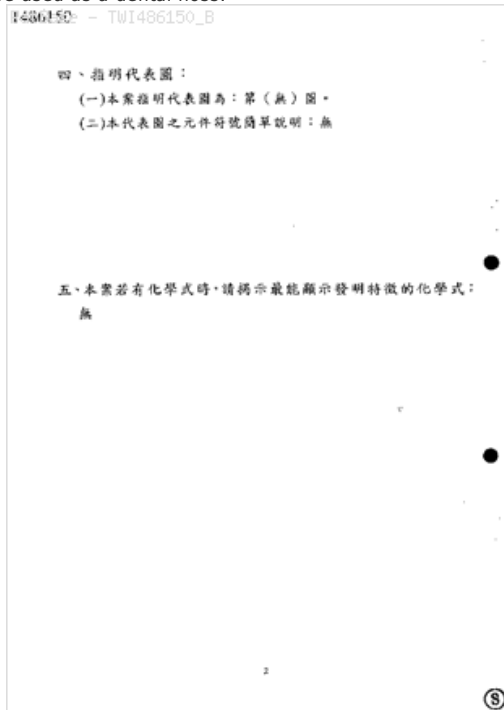
A61C D01F (Subclass/Invention)

International (IPC 1-7): A61C15/04

CPC: A61C15/041 D01F6/46 D01F6/56

European: A61C15/04B D01F6/46 D01F6/56

US: 132/321



Family:

Publication number	Publication date	Application number	Application date
AR081306 AA	20120808	AR2010P104089	20101104
AU2010315038 AA	20110512	AU20100315038	20101105
AU2010315038 BB	20130620	AU20100315038	20101105
BR112012009875 A2	20160927	BR20121109875	20101105
CA2776998 AA	20110512	CA20102776998	20101105
CA2776998 C	20150324	CA20102776998	20101105
CN102740796 A	20121017	CN201080050012	20101105
CN105640660 A	20160608	CN201610026979	20101105
CO6531448 A2	20120928	CO20120063315	20120417
EP2496170 A1	20120912	EP20100779162	20101105
EP2496170 B1	20180131	EP20100779162	20101105
IN02874DN2012 A	20150724	IN2012DN02874	20120403
JP2013510170 T2	20130321	JP20120538036T	20101105
MX2012004323 A1	20120508	MX20120004323	20101105
MY152408 A	20140930	MY20120001510	20101105
RU2012123016 A	20131220	RU20120123016	20101105
RU2540271 C2	20150210	RU20120123016	20101105
TH127029 A	20130911	TH20121002067	20101105
TW201138723 A	20111116	TW20100137887	20101104
TWI486150 B	20150601	TW20100137887	20101104
US2012222698 AA	20120906	US20100508050	20101105
US8863762 BB	20141021	US20100508050	20101105
WO11057095 A1	20110512	WO2010US55656	20101105
ZA201202860 A	20150325	ZA20120002860	20120418

Priority:

US2009025841P 20091105 CN201080050012 20101105 WO2010US55656 20101105
US20100508050 20101105

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s): (std): COLGATE PALMOLIVE CO ; FOCASSIO PAULO ; FONTANA JOSE EDER ; LEMOS EDILBERTO ; PERNA FERNANDO

Assignee(s): KOLGEJT PALMOLIV KOMPANI ; COLGATE PALMOLIVE COMPANY

Inventor(s): (std): EDER FONTANA JOSE ; EDILBERTO LEMOS ; FERNANDO PERNA ; FOCASSIO PAULO ; FOKASSIU PAULO ; FONTANA JOSE EDER ; FONTANA ZHOZE EHDER ; LEMOS EDILBERTO ; LEMOS EHDILBERTU ; PAULO FOCASSIO ; PERNA FERNANDO ; PERNA FERNANDU

Inventor(s): JOSE EDER FONTANA

Agent(s): FB RICE; GRIFFITH HACK; SMART AND BIGGAR; JUAN PABLO CADENA SARMIENTO; JENKINS PETER DAVID; WIBBELMANN JOBST; HOSHINO OSAMU; ONO SHINJIRO; EJIRI HIROKO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; ANNE LOUISE; HEBLE NIKHIL A

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

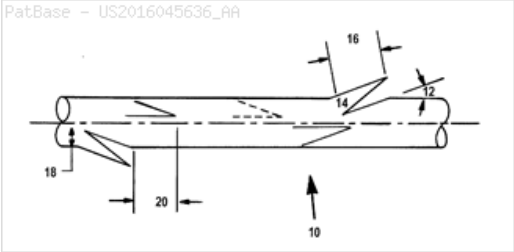
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Title: SELF-RETAINING SUTURES OF POLY-4-HYDROXYBUTYRATE AND COPOLYMERS THEREOF

Abstract: Absorbable monofilament fibers and self-retaining sutures with high tensile strengths have been developed. The straight pull tensile strengths of the absorbable self-retaining sutures closely approximate, equal or exceed the average minimum knot-pull tensile standards set by the United States Pharmacopeia (USP). These higher strength absorbable self-retaining sutures can therefore be used either without needing to oversize the suture for a given procedure, or by oversizing the self-retaining suture by no more than 0.1 mm in diameter. In one embodiment, the absorbable self-retaining sutures are made from poly-4-hydroxybutyrate or copolymers thereof. Methods for producing absorbable self-retaining sutures that have high tensile strengths and pronounced sheath-core structures wherein the sheath is harder than the core are also provided. The self-retaining sutures may be made by spinning and orienting a monofilament fiber of poly-4-hydroxybutyrate or copolymer thereof and inserting retainers in monofilament fibers.

Classifications:

International (IPC 8-9): A61B17/06 A61L17/06 A61L17/10 A61L17/12 A61L17/14 A61L27/18 A61L31/00 A61L31/06 (Advanced/Invention)
CPC: A61L17/105 A61B17/06166 A61L17/12 A61B2017/00004 A61B2017/00526 A61B2017/06176 A61L27/18 A61L31/06
US: 264/178F 264/210.8 606/230



Family:

Publication number	Publication date	Application number	Application date
CA2958747 AA	20170213	CA20152958747	20150807
EP3180040 A1	20170621	EP20150750595	20150807
US2016045636 AA	20160218	US20150821145	20150807
WO16025329 A1	20160218	WO2015US44280	20150807

Priority:

US20140037812P 20140815 US20150821145 20150807 WO2015US44280 20150807

Probable Assignee: TEPHA INC

Assignee(s): (std): TEPHA INC

Assignee(s): WILLIAMS SIMON F ; RIZK SAID

Inventor(s): (std): RIZK SAID ; WILLIAMS SIMON F

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; POTTER CLARKSON LLP; SHYNTUM YVONNE Y ET AL

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

Title: COMPOSITE CONTAINING COATED EXTENDED CHAIN POLYOLEFIN FIBERS

Abstract: High tenacity, high modulus ultrahigh molecular weight fibers of polyethylene or polypropylene are coated with polyethylene, polypropylene or an ethylene and/or propylene copolymer. The coating improves certain properties of the monofilament or multifilament, including adhesion to various matrices in complex composites and resistance of the fiber to fibrillation.

Classifications:

International (ipc 8-9): B32B5/00 D01F11/06 D01F6/04 D01F6/06 D01F8/06 D06M15/227 (Advanced/Invention); D06M101/00 D06M101/16 D06M101/18 D06M101/30 (Advanced/Non-invention);

B32B5/00 D01F11/00 D01F6/04 D06M15/21 (Core/Invention)

International (ipc 1-7): B32B27/34 B32B5/00 D01F11/06 D01F6/04 D01F6/06 D01F8/06 D02G3/00 D04H1/58 D06M15/227 D06M15/26

CPC: Y10T428/2929 Y10T428/2933 Y10T428/2938 Y10T428/2967 F41H5/0485 C08J5/046 C08J5/06 C08J2363/00 D06M15/227 Y10T428/249937 Y10T428/249948 Y10T428/31511 Y10T428/31786 Y10T428/31797

European: C08J5/04L C08J5/06 D06M15/227 F41H5/04F4 M08J363/00

US: 428/288 428/292 428/293 428/296.4 428/300.1 428/373 428/375 428/378 428/394 428/413 428/480 428/483

PatBase - JP2604表 B2

1

マトリックス	好ましいコーティング
1. ABS、ポリスチレンまたはポリスチレン-ポリブタジエン-ポリスチレン	1. エチレン-ポリスチレンのブロックおよびグラフトコポリマー
2. スルホン化ポリエチレンおよびその塩	2. エチレン-塩化ビニルグラフトコポリマー
3. ポリ塩化ビニル	3. エチレン-塩化ビニルグラフトコポリマー
4. カルボン酸を含有する熱可塑性物質	4. エチレン-アクリル(またはメタクリル)酸コポリマー
5. スルホネートエチレン-プロピレン-ジエンエラストマー	5. エチレン-アクリル酸コポリマーまたはスルホン化ポリエチレン
6. コンクリート	6. エチレン-アクリル酸コポリマー

Family:

Publication number	Publication date	Application number	Application date
CA1198862 A1	19860107	CA19830423581	19830315
DE3365055 D1	19860911	DE19833365055	19830223
EP0091547 A1	19831019	EP19830101727	19830223
EP0091547 B1	19860806	EP19830101727	19830223
EP0091547 B2	19930224	EP19830101727	19830223
JP2604347 B2	19970430	JP19830046977	19830319
JP58169521 A2	19831006	JP19830046977	19830319
US4543286 A	19850924	US19830554464	19831122
US4563392 A	19860107	US19830554171	19831122

Priority:

US19820359976 19820319 CA19830423581 19830315 US19830554464 19831122
US19830554171 19831122

Probable Assignee: ALLIED CORP

Assignee(s): (std): ALLIED CORP ; ALLIED CHEM

Assignee(s): ALLIED CHEM CORP ; HARPELL GARY A ; KAVESH SHELDON ; PALLEY IGOR ; PREVORSEK DUSAN C

Inventor(s): (std): DASAN SHIRIRU PUREBOOSETSUKU ; GARII ARAN HAAPERU ; HARPELL GARY A ; HARPELL GARY ALLAN ; IGORU PARII ; KAVESH SHELDON ; PALLEY IGOR ; PREVORSEK DUSAN C ; PREVORSEK DUSAN CIRIL ; SHIERUDON KABETSUSHIYU

Agent(s): GOWLING LAFLEUR HENDERSON LLP

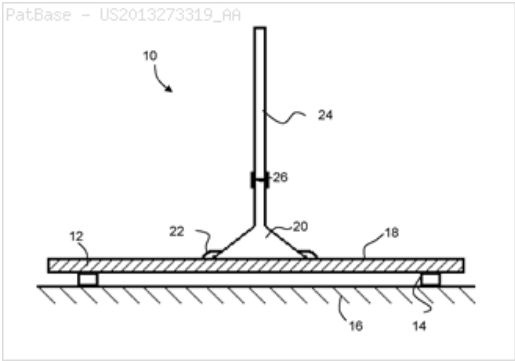
Designated states: DE FR GB IT NL

Title: METHOD FOR TREATING A CONCRETE SURFACE TO PROVIDE A PHOTOCATALYTIC COATING

Abstract: A method for the treatment of a concrete surface includes at least partially covering the surface with a first coating which is substantially transparent and substantially impermeable to water; and at least partially covering said first coating with a second coating which is substantially transparent and photocatalytic; the surface having an average roughness Ra less than about 10 mum.

Classifications:

International (IPC 8-9): B01J35/02 B05D5/02 C01G23/047
C04B41/50 C04B41/71 E04B1/92 (Advanced/Invention)
CPC: B05D5/02 B01J35/004 B01J37/0244 C04B28/04 C04B41/009
C04B41/52 C04B41/71 C04B2111/00827 Y10T428/24364 Y02W30/94
Y02P40/146
European: C04B28/04 C04B41/00V C04B41/52 C04B41/71
L01J35/00D6 L01J37/02M4 M04B111/00T52F
US: 427/261 428/142



Family:

Publication number	Publication date	Application number	Application date
CA2819503 AA	20130531	CA20112819503	20111206
EP2649026 A1	20131016	EP20110794456	20111206
FR2968653 A1	20120615	FR20100060230	20101208
FR2968653 B1	20130503	FR20100060230	20101208
JP2014504251 T2	20140220	JP20130542500T	20111206
US2013273319 AA	20131017	US20110992476	20111206
WO12076491 A1	20120614	WO2011EP71839	20111206

Priority:

FR20100060230 20101208 WO2011EP71839 20111206

Probable Assignee: LAFARGE

Assignee(s): (std): CHEN JEFFREY ; HORGNIES MATTHIEU ; LAFARGE SA

Assignee(s): LAFARGE

Inventor(s): (std): CHEN JEFFREY ; HORGNIES MATTHIEU

Inventor(s): JEFFREY CHEN ; MATTHIEU HORGNIES

Agent(s): NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MERIGEALT SHONA; LAFARGE; MAEDA AND PARTNERS

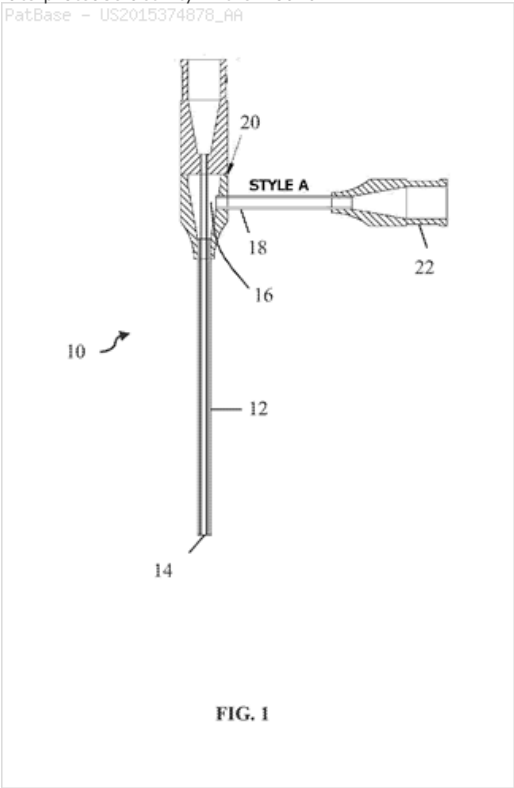
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Title: ANGIOGENIC DEVICES FOR WOUND CARE

Abstract: Devices, such as dressing and implants, for treatment of chronic wounds comprising controlled delivery systems for butyric acid or salts, **polymers**, or derivatives thereof are provided. These devices are particularly useful when it is desirable to promote angiogenesis in a chronic wound. In the preferred embodiment, the implants are resorbable, provide a temporary scaffold for the in-growth of cells, tissues, and blood vessels to help regenerate the extracellular matrix, and deliver butyric acid to the chronic wound. The dressings and implants may also contain one or more antibiotics to treat or prevent infection in the wound, and/or inhibitors of proteases to modulate protease activity in the wound.

Classifications:

International (IPC 8-9): A61L15/20 A61L15/26 A61L15/42 A61L15/44 A61L15/64 A61L27/54 A61L27/56 (Advanced/Invention)
CPC: A61L15/44 A61L15/20 A61L15/425 A61L15/64 A61L15/26 A61L2300/21 A61L2300/412 A61L27/54 A61L27/56 A61L2300/104 A61L2300/404
US: 156/60 424/443 427/2.31 428/402 514/557 556/110 562/606



Family:

Publication number	Publication date	Application number	Application date
US2015374878 AA	20151231	US20150752078	20150626
WO15200819 A1	20151230	WO2015US38034	20150626

Priority:

US20140018232P 20140627 US20150752078 20150626

Probable Assignee: AKESO BIOMEDICAL INC

Assignee(s): (std): AKESO BIOMEDICAL INC

Inventor(s): (std): CARTER ANDREW J ; WILLIAMS SIMON F

Agent(s): SHYNTUM YVONNE Y ET AL

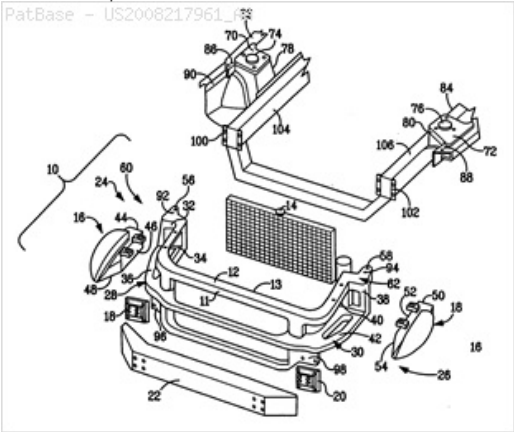
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX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

Abstract: A fiber reinforced polypropylene composite front end module. The front end module includes a radiator mounting frame molded from a composition comprising at least 30 wt percent polypropylene based resin, from 10 to 60 wt percent organic fiber, from 0 to 40 wt percent inorganic filler, and from 0 to 0.1 wt percent lubricant, based on the total weight of the composition, the radiator mounting frame having at least a first side and a second side. A process for producing a front end module is also provided. The process includes the step of injection molding a composition to form the front end module, the front end module having a radiator mounting frame having at least a first side and a second side, wherein the composition comprises at least 30 wt percent polypropylene, from 10 to 60 wt percent organic fiber, from 0 to 40 wt percent inorganic filler, and from 0 to 0.1 wt percent lubricant, based on the total weight of the composition.

Classifications:

International (IPC 8-9): B21D53/88 B60R27/00 B60R99/00 E01D19/12 (Advanced/Invention); B21D53/00 B60R99/00 E01D19/12 (Core/Invention)
CPC: Y10T29/49622 B62D25/084 B62D29/04
European: B62D25/08C1 B62D29/04
US: 29/897.2 296/193.09



Family:

Publication number	Publication date	Application number	Application date
US2008217961 AA	20080911	US20080074594	20080305
WO08109093 A1	20080912	WO2008US02897	20080305

Priority:

US20070905263P 20070306 US20080074594 20080305

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXON MOBIL CORP ; EXXONMOBIL RES AND ENG CO ; LUSTIGER ARNOLD ; VALENTAGE JEFFREY

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

Inventor(s): (std): LUSTIGER ARNOLD ; VALENTAGE JEFFREY

Agent(s): EXXONMOBIL RESEARCH AND ENGINEERING COMPANY; EXXONMOBIL RESEARCH AND ENGINEERING CO; BAKUN ESTELLE C ET AL

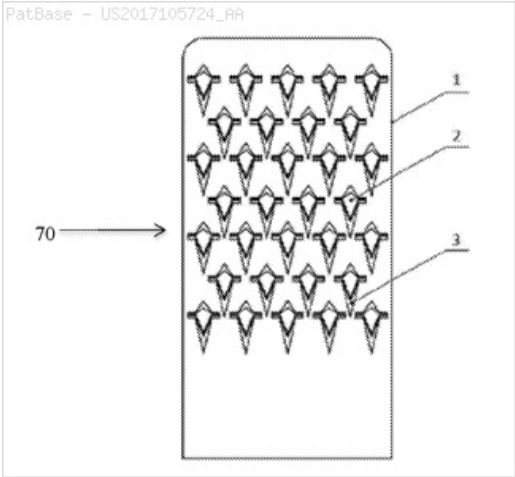
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Title: IMPLANTABLE FASTENER FOR ATTACHMENT OF A MEDICAL DEVICE TO TISSUE

Abstract: Implantable fasteners that can be repositioned after implantation, and implants including these repositionable implantable fasteners, have been developed. The fasteners are designed to fixate medical devices and other implantable components in the body, and can be adjusted after initial fixation in tissue to reposition the implanted medical device. The fasteners include a plurality of tissue retainers emanating from a supportive backing, wherein the tissue retainers can swivel from the plane of the supportive backing to engage tissue. The fasteners are fixated in tissue by movement in a first direction, and can be removed when pulled in a direction opposite to the first direction. The fasteners may be attached to medical devices before or after implantation. In one embodiment, the implant is a mastopexy device in the form of a mesh and the repositionable fastener.

Classifications:

International (IPC 8-9): A61B17/064 A61B17/80
A61B90/00 (Advanced/Invention)
CPC: A61B17/064 A61B17/809 A61B2017/0641 A61B2017/561
A61B2017/00004 A61B2017/00792 A61B2017/00796
A61B2017/00889 A61B2017/00898 A61B2017/0437 A61B2017/0464
A61B17/0401 A61F2/0063 A61F2/12 A61F2002/0068 A61F2220/0016
US: 606/297



Family:

Publication number	Publication date	Application number	Application date
CA3002062 AA	20180413	CA20163002062	20161013
US2017105724 AA	20170420	US20160292592	20161013
WO17066458 A1	20170420	WO2016US56861	20161013

Priority:

US20150241841P 20151015 US20160292592 20161013 WO2016US56861 20161013

Probable Assignee: TEPHA INC

Assignee(s): (std): TEPHA INC

Assignee(s): VAN NATTA BRUCE ; CRISTADORO KEVIN ; LIMEM SKANDER

Inventor(s): (std): CRISTADORO KEVIN ; LIMEM SKANDER ; VAN NATTA BRUCE

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; PABST PATREA L 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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: INKJET RECEPTIVE THERMOPLASTIC POLYURETHANE FILM

Abstract: The present invention relates to an article useful as a graphic film. The article comprises an ink-receptive layer that is made from a water-swellable polyurethane resin and an ink layer adjacent to the ink-receptive layer.

Classifications:

International (IPC 8-9): B41M1/30 B41M5/52 C08G18/48 C08G18/75 C08J5/18 (Advanced/Invention)

CPC: C08G18/758 B41M5/5281 C08G18/4833 C08J5/18 C08J2375/08 D06P5/30

Family:

Publication number	Publication date	Application number	Application date
WO17222957 A1	20171228	WO2017US38079	20170619

Priority:

US20160353689P 20160623

Probable Assignee: LUBRIZOL ADVANCED MAT INC

Assignee(s): (std): LUBRIZOL ADVANCED MAT INC

Assignee(s): LUBRIZOL ADVANCED MATERIALS INC

Inventor(s): (std): MAKADIA CHETAN M ; MAKAL UMIT G ; PAN YUN LONG ; STANISLAWCZYK VIC ; VONTORCIK JR JOSEPH J

Agent(s): FUHRER ERYN ACE ET AL

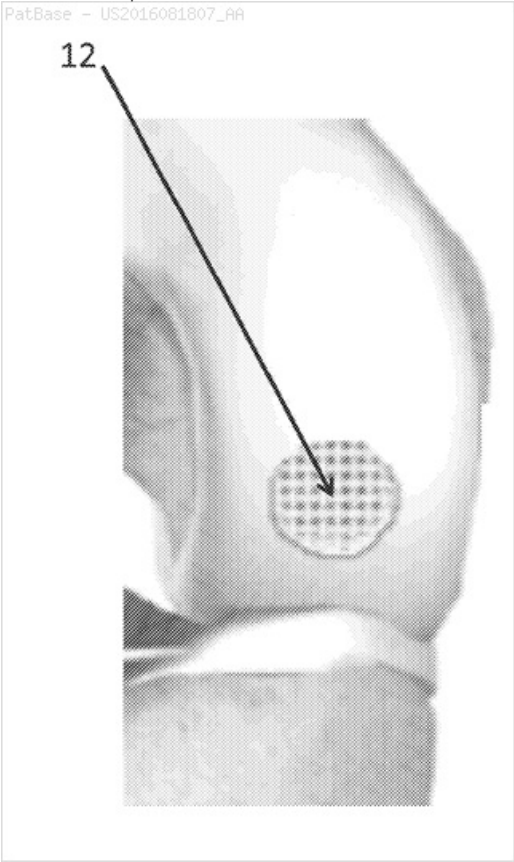
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN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

Title: ARTICULAR CARTILAGE REPAIR

Abstract: A scaffold is provided which facilitates integration of both bone and cartilage at an osteochondral lesion, thereby acting as a tissue engineered interface or tissue engineered junction between the two different tissues. The method and systems for engineering this interface may be acellular or may be loaded with cells prior to use.

Classifications:

International (ipc 8-9): A61F2/28 A61F2/30 A61K45/00 A61K9/00 A61L27/14 A61L27/30 A61L27/38 A61L27/40 A61L27/50 A61L27/54 A61L27/56 (Advanced/Invention)
CPC: A61F2/30756 A61F2002/2817 A61F2002/30766 A61F2002/30838 A61F2002/3092 A61F2002/3093 A61F2002/30971
US: 623/14.12



Family:

Publication number	Publication date	Application number	Application date
AU2015320722 AA	20160331	AU20150320722	20150923
CA2962223 AA	20170322	CA20152962223	20150923
EP3197496 A1	20170802	EP20150843421	20150923
US2016081807 AA	20160324	US20150862536	20150923
WO16049166 A1	20160331	WO2015US51695	20150923

Priority:

US20140053883P 20140923 US20150862536 20150923 WO2015US51695 20150923

Probable Assignee: CYTEX THERAPEUTICS INC

Assignee(s): (std): CYTEX THERAPEUTICS INC ; CYTEXX THERAPEUTICS INC

Assignee(s): ESTES BRADLEY T ; GUILAK FARSHID ; MOUTOS FRANKLIN THOMAS

Inventor(s): (std): ESTES BRADLEY T ; GUILAK FARSHID ; MOUTOS FRANKLIN THOMAS

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; ISARPATENT; BECK MICHAEL D

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

Title: DENTAL FLOSS

Abstract: A dental floss having an improved cleaning and polishing action is obtained by coating the floss with a coating agent comprising a resilient wax, **polymer**, or elastomer, having embedded therein a finely divided particulate polishing agent.

Classifications:

International (IPC 8-9): A61C15/04 A61K8/02 A61Q11/00 B24D11/00 B24D3/00 D06M11/00 D06M11/38 D06M11/44 D06M11/45 D06M11/46 D06M11/48 D06M11/49 D06M11/53 D06M11/58 D06M11/71 D06M11/74 D06M11/76 D06M11/79 D06M11/80 (Advanced/Invention);

A61C15/00 A61K8/02 A61Q11/00 B24D11/00 B24D3/00 D06M11/00 (Core/Invention)

International (IPC 1-7): A61C15/00 B24D3/00 D02G3/00

CPC: A61K8/02 A61Q11/00 A61C15/041

European: A61C15/04B A61K7/16P A61K8/02 A61Q11/00 K61K201/117

US: 132/321 132/8.9 132/89

PatBase - CA984752_A1

SUBSTITUTE

REMPLACEMENT

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
CA984752 A1	19760302	CA19730180942	19730913
GB1451237 A	19760929	GB19730045437	19730928
JP1064757 C3	19810922	JP19730108100	19730927
JP49072044 A2	19740711	JP19730108100	19730927
JP56006775 B4	19810213	JP19730108100	19730927
US3838702 A	19741001	US19730359466	19730511

Priority:

US19720294672 19721003 US19730359466 19730511 JP19730108100 19730927

Probable Assignee: STANDARD OIL CO

Assignee(s): (std): STANDARD OIL CO ; STANDARD OIL CO OHIO

Assignee(s): STANDARD OIL CO THE ; STANDARD OIL CO US ; STANDARD OIL COMPANY THE ; STANDISH NORMAN W ; TALSMA HERBERT

Inventor(s): (std): STANDISH NORMAN W ; TALSMA HERBERT ; TALSMA H ; STANDISH N

Inventor(s): TALSMA H US ; STANDISH N US

Title: PROCESS FOR PREPARING CONDUCTING POLYMERIC COMPOSITIONS

Abstract: Process for reducing the resistivity of **polymers**, by forming a composition comprised of such **polymers** and one or more metal salts, and treating such a composition with a reagent to form the corresponding carbonate, sulfide and/or oxide salts of such metal salts on and in the surfaces of the **polymer**.

Classifications:

International (IPC 8-9): C08J7/00 C08K3/00 H01B1/12 (Advanced/Invention);

C08J7/00 C08K3/00 H01B1/12 (Core/Invention)

International (IPC 1-7): H01B1/02

CPC: Y10S524/914 H01B1/122 C08K3/013

European: C08J7/00 C08K3/00P5 H01B1/12F

US: 252/512 252/513 252/514 252/519.33 252/519.34 524/401 524/439 524/914

Family:

Publication number	Publication date	Application number	Application date
US4566991 A	19860128	US19820394752	19820702

Priority:

US19820394752 19820702

Probable Assignee: ALLIED CORP

Assignee(s): (std): ALLIED CORP

Inventor(s): (std): KIM HYO GUN ; PATERSON ARTHUR R ; SIBILIA JOHN P

Title: TEXTILE FABRICS OF DIFFERENTIAL WEAVE COMPRISING MULTIFILAMENT THREADS WHEREIN INDIVIDUAL FILAMENTS HAVE A LINEAR DENSITY OF ONE DECITEX OR LESS

Abstract: A woven fabric is made of warp threads and weft threads. The warp threads have a different composition than the weft threads and at least one of the warp threads or weft threads is comprised of a multifilament fibre. The fabric is colored after it is manufactured by preferentially coloring the warp threads with a dyestuff which is preferentially taken up by the warp threads, but substantially repelled by the weft threads, and a different dyestuff which is preferentially taken up by the weft threads and substantially repelled by the warp threads. The resulting fabric can exhibit the shot silk effect.

Classifications:

International (IPC 8-9): D03D15/00 D06P1/00 D06P3/82 D06P3/87 D06P5/12 (Advanced/Invention);

D03D15/00 D06P1/00 D06P3/82 D06P5/12 (Core/Invention)

International (IPC 1-7): B32B7/00 D03D15/00 D04H D06P3/82 D06P3/87 D06P3/872

CPC: Y10S428/903 D06P3/8252 D03D15/00 D03D15/0027

D03D15/0061 D03D15/0077 D06P1/0004 D06P1/0096 D06P3/82

D06P3/8219 D06P3/8266 D06P5/12 D10B2201/02 D10B2201/04

D10B2201/20 D10B2201/24 D10B2211/02 D10B2211/04

D10B2321/022 D10B2321/10 D10B2331/02 D10B2331/04

D10B2401/14 D10B2503/06 Y10T442/3268

European: D03D15/00 D06P1/00A D06P1/00V D06P3/82

D06P3/82V4 D06P3/82V5D6 D06P3/82V7 D06P5/12

US: 428/229 428/259 428/903 442/214 8/480 8/485 8/529 8/531 8/532 8/533

PatBase - US5487936_R

U.S. Patent

Jan. 30, 1996

5,487,936

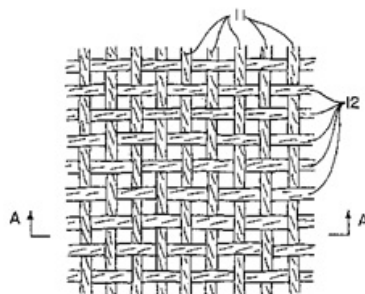


FIG. 1

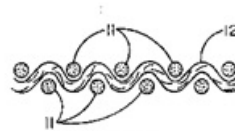


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
GB2287966 A1	19951004	GB19950005727	19950321
GB2287966 B2	19980401	GB19950005727	19950321
GB9405546 A0	19940504	GB19940005546	19940321
GB9505727 A0	19950510	GB19950005727	19950321
IT1274804 B	19970724	IT1994RM00848	19941228
ITRM940848 A0	19941228	IT1994RM00848	19941228
ITRM940848 A1	19950921	IT1994RM00848	19941228
JP8060563 A2	19960305	JP19950088826	19950322
US5487936 A	19960130	US19940217148	19940324

Priority:

GB19940005546 19940321 GB19940005546 19940321 US19940217148 19940324

Probable Assignee: CAMPBELL SARAH ANN

Assignee(s): (std): COLLIER CAMPBELL LTD ; KORIIA KIYANPUBERU LTD

Assignee(s): COLLIER SUSAN JANE ; CAMPBELL SARAH ANN ; COLLIER CAMPBELL LIMITED

Inventor(s): (std): COLLIER SUSAN J ; COLLIER SUSAN JANE ; SUUZAN JIEEN KORIIA

Inventor(s): SUSAN JANE COLLIER

Title: FLUOROPOLYMER FIBER-BONDING AGENT AND ARTICLES PRODUCED THEREWITH

Abstract: The invention relates to a melt-processable fiber-bonding agent made of poly(vinylidene fluoride) (PVDF), such as KYNAR(R) PVDF from Arkema, as well as to fibrous materials bonded with the PVDF fiber-bonding agent. The PVDF fiber-bonding agent is a low-melt temperature, low melt viscosity PVDF **polymer** or copolymer with excellent chemical and oxidative resistance properties, and is suitable for bonding fibers in non-woven fabrics, especially for use in chemically-aggressive environments. The PVDF fiber-bonding agent composition allows it to be processed into fibers on conventional melt spinning equipment. The PVDF fiber-bonding agent is introduced into non-woven fabric in the form of a continuous fiber web or as a component of a mixed fiber formulation. When heated above its melting point, the lower melting point PVDF fiber-bonding agent of the invention bonds the fibers of the fiber framework at the fiber cross-over points.

Classifications:

International (IPC 8-9): C08F14/18 C08F14/22 C08F14/28 C08L27/12 C08L27/16 C08L27/20 D04H1/52 D04H1/541 D04H1/587 D04H1/64 D04H1/65 (Advanced/Invention)

CPC: C08F14/18 C08F14/22 C08F14/28 C08L27/12 C08L27/16 C08L27/20 D04H1/52 D04H1/541 D04H1/587 D04H1/64 D04H1/65

Family:

Publication number	Publication date	Application number	Application date
WO17087484 A1	20170526	WO2016US62222	20161116

Priority:

US20150257344P 20151119

Probable Assignee: ARKEMA SA

Assignee(s): (std): ARKEMA INC ; ARKEMA SA

Inventor(s): (std): STABLER SEAN M ; HENRY JAMES JOSEPH ; GOLDBACH JAMES T

Agent(s): HARPER STEPHEN

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

Title: WET AND DRY STICK ADHESIVE, ARTICLES, AND METHODS

Abstract: An adhesive article is disclosed. The adhesive article includes a reinforced tape and a pressure sensitive layer disposed on the reinforced tape. The pressure sensitive layer includes an adhesive blend of 25 to 75 parts by weight of a first hydrophilic pressure sensitive adhesive having a first polyacrylate, 60 to 24 parts by weight of a non-hydrophobic pressure sensitive adhesive having a second polyacrylate, and 15 to 1 parts by weight of a tackifying agent. The adhesive blend includes a cross linking agent. The non-hydrophobic pressure sensitive adhesive is miscible in the hydrophilic pressure sensitive adhesive and the second polyacrylate is different from the first polyacrylate. Methods of making and using adhesive articles are also disclosed.

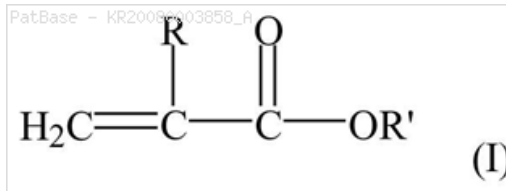
Classifications:

International (IPC 8-9): B32B7/12 C09J11/06 C09J133/00 C09J133/04 C09J133/06 C09J133/08 C09J133/10 C09J7/02 (Advanced/Invention); C09J133/00 C09J133/08 C09J133/10 (Advanced/Non-invention); B32B7/12 C09J11/02 C09J133/00 C09J133/04 C09J133/06 C09J7/02 (Core/Invention)

CPC: Y10S526/931 C09J133/064 C08L33/064 C08L71/02 C08L2205/02 C08L2205/03 Y10T428/2852 Y10T428/2878 Y10T428/2891 C08L2666/04

European: C09J133/06B2 M08L205/02 M08L205/03 M08L33/06B2 M08L71/02

US: 428/355.00R 428/355.00RP 428/355.0AC 428/355AC 428/355EN 428/355R 526/931



Family:

Publication number	Publication date	Application number	Application date
CN101208402 A	20080625	CN200680022961	20060503
CN101208402 B	20120104	CN200680022961	20060503
DE602006031450 D1	20121018	DE200660031450T	20060503
EP1877510 A1	20080116	EP20060759326	20060503
EP1877510 B1	20120815	EP20060759326	20060503
JP2008540742 T2	20081120	JP20080510311T	20060503
KR101225365 B1	20130122	KR20077025471	20060503
KR20080003858 A	20080108	KR20077025471	20060503
US2006251893 AA	20061109	US20050121798	20050504
US7442438 BB	20081028	US20050121798	20050504
WO06119505 A1	20061109	WO2006US17746	20060503

Priority:

US20050121798 20050504 EP20060759326 20060503 WO2006US17746 20060503

Probable Assignee: 3M CO

Assignee(s): (std): 3M INNOVATION CO LTD ; 3M INNOVATIVE PROPERTIES CO ; 3M CO

Assignee(s): 3M INNOVATION CO ; 3M INNOVATIVE PROPERTIES CO SAINT PAUL ; 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): FEDIE DOMINIC L M ; BOULOS MARIE A M CENTER ; FEDIE DOMINIC L ; BOULOS MARIE A

Inventor(s): BOULOS MARIE A 3M CENTER ; FEDIE DOMINIC L 3M CENTER POST OFFICE BOX ; BOULOS MARIE ; BOULOS MARIE A3M CENTER S AINT PAUL ; FEDIE DOMINIC ; FEDIE DOMINIC L3M CENTER POST OFFICE BOX ; BOULOS MARIE A3M CENTER

Agent(s): VOORTMANS GILBERT JL; ISARPATENT; YAMADA TAKUJI; NISHISHITA SHOSEKI; YAMAMOTO MUNEO; GOTO HIROKO; TANAKA MITSUO; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; PATCHETT DAVID B; DAVID B

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: HILO DENTAL MULTICOMPONENTE COEXTRUIDO. COEXTRUDED MULTICOMPONENT FLOSS. (Machine translation)

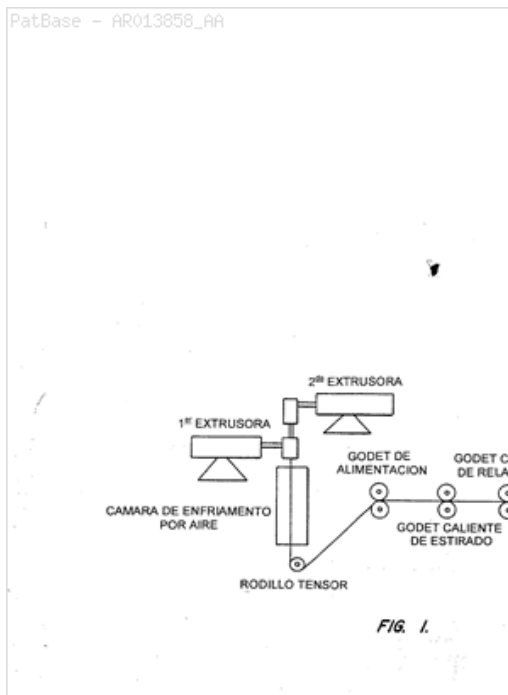
Abstract: Source: AR013858A [ES] Hilos dentales mejorados que incluyen dos o mas componentes seleccionados para proporcionar propiedades convenientes al hilo dental. Los hilos dentales mejorados podran comprender uno o multiples filamentos multicomponentes, comprendiendocad a filamento un nucleo interno seleccionado para proporcionar resistencia al hilo dental, y una capa externa seleccionada para proporcionar una propiedad de superficie conveniente. Los hilos dentales mejorados podran comprender tambien uno o multiples filamentos de nucleo embutidos en un unico cuerpo revestimiento. El componente del filamento proporciona propiedades fisicas convenientes al hilo dental, tales como resistencia a la traccion, mientras que el componente del revestimiento del cuerpo del hilo dental proporciona propiedades de superficie convenientes. Por su parte, el metodo para fabricarlo incluye coextruir dos o mas materiales a traves de una boquilla multicomponente para conformar un coextruido con por lo menos un filamento de nucleo de un primer material estando el filamento de nucleo rodeado de unavaina compuesta por un segundo material, tratando al coextruido para formar el hilo dental.

Machine translation: Improved dental threads that include two or more components selected to provide desirable properties to floss. The threads will be able to comprise one or multiple multicomponent filaments comprising an inner core selected for resistance to floss, and an outer layer selected for a suitable surface property. The improved dental floss can also comprise a core filament embedded in a single body covering. The component of the filament provides physical properties convenient to floss, such as tensile strength, while the component of the covering of the dental thread provides desirable surface properties. For its part, the method to manufacture includes coextruding two or more materials through a multicomponent nozzle to form a coextruded with at least one core filament of a first material while the core filament is surrounded by a sheath composed of a second material, treating the co-extruded to form floss.

Classifications:

International (IPC 1-7): A61C15/04

PatBase - AR013858_AA



Family:

Publication number	Publication date	Application number	Application date
AR013858 AA	20010131	AR1997P104841	19971020

Priority:

AR1997P104841 19971020

Probable Assignee:

GILLE CATHERINE

Assignee(s): (std)

GILLE CATHERINE

Title: HILO DENTAL DENTAL FLOSS (Machine translation)

Abstract: Source: CO4750616A [ES] 1.- Un hilo dental multicomponente, coextruido CARACTERIZADO PORQUE comprende un filamento de nucleo que comprende un primer material, embutido en un revestimiento que comprende un segundo material y que tiene una superficie externa continua. 21.- Un metodo de fabricar un hilo dental multicomponente, coextruido y por lo menos un filamento de nucleo embutido en un revestimiento, dicho metodo CARACTERIZADO PORQUE comprende: la coextruccion de dos o mas materiales a traves de una boquilla multicomponente para conformar el coextruido que comprende por lo menos un filamento de nucleo que tiene una primer material; por lo menos un filamento de nucleo embutido en dicho revestimiento constituido por un segundo material y tratamiento de dicho coextruido para la formacion de dicho hilo dental. **Machine translation:** 1. A multicomponent floss, coextruded characterized by comprising a core filament comprising a first material, embedded in a coating comprising a second material and having a continuous outer surface. 21. A method of making a dental floss multicomponent, coextruded and at least one core filament embedded in a coating, said method comprising: the coextrusion of two or more materials through a multicomponent die to form the coextruded It comprises at least one core filament having a first material; at least one core filament embedded in said coating comprising a second material and said coextruded treatment for the formation of said floss.

Classifications:

International (IPC 8-9): A61C15/04 A61K7/16 D01F8/06 D01F8/12 D01F8/14 (Advanced/Invention);

A61C15/00 D01F8/06 D01F8/12 D01F8/14 (Core/Invention)

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Probable Assignee: GILLETTE CANADA

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Agent(s): JOSE ANTONIO LLOREDA

Title: PURIFIED CELLULOSE FIBER, FIBER-RUBBER COMPOSITE, AND TIRE

Abstract: The present invention relates to a purified cellulose fiber which has an initial elastic modulus of 2.30 cN/dtex or higher in a region having an elongation of 0.5 percent to 0.7 percent, wherein the purified cellulose fiber is made by wet spinning or dry-wet spinning a cellulose-dissolved liquid made by dissolving a cellulose raw material in an ionic liquid, and a fiber-rubber composite and a tire, each using the same.

Classifications:

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CN103328701 A	20130925	CN201180066047	20111130
CN103328701 B	20160504	CN201180066047	20111130
DE602011044822 D1	20180208	DE201160044822T	20111130
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EP2647744 A4	20140521	EP20110845200	20111130
EP2647744 B1	20180103	EP20110845200	20111130
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JP5851418 B1	20160203	JP20120546919T	20111130
US2013248077 AA	20130926	US20110989961	20111130
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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