

Search history

Search 1: FT=((absorbent or absorptive) and (nonwoven or non-woven or non 1w woven)) (Results 24574)

Search 2: 1 and lubricant* (Results 2080)

Search 3: 2 and (coarseness or fineness) (Results 141)

Search 4: 3 and PD<20150114 (Results 127)

Search 5: 4 and coating (Results 86)

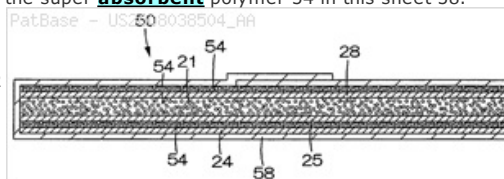
Search 6: 5 and diaper (Results 27)

Title: APPARATUS FOR PRODUCING ABSORBING MATERIAL, ABORBING MATERIAL AND **ABSORBENT** ARTICLE

Abstract: [Problem to be Solved] A shuffling hand feeling and unwanted non-uniform absorption characteristics in the case of using a tow (fiber bundle) are prevented. [Solution] An **absorbent** body includes a fiber aggregate 21 formed by opening the tow, a super **absorbent** polymer 54, and a sheet covering these components; and includes the super **absorbent** polymer 54 bonded to the sheet 58 with an adhesive that is applied in a continuous plane to the entire surface or the substantially entire surface of at least the portion to be provided with the super **absorbent** polymer 54 in this sheet 58.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49
A61F13/511 A61F13/512 A61F13/514 A61F13/53 A61F13/534
A61F13/538 A61F13/539 A61F5/44 A61L15/60 B32B27/00 B32B27/12
B32B3/00 B32B3/02 B32B37/00 B32B5/24 B44C3/08 D04H1/54
D04H1/559 D04H1/70 D06C23/04 (Advanced/Invention);
A61F13/15 A61F5/44 A61L15/16 B32B27/00 B32B27/12 B32B3/00
B32B3/02 B32B37/00 B32B5/22 B44C3/00 D04H1/54
D06C23/00 (Core/Invention)



International (IPC 1-7): A61F13/15 A61F13/472 A61F13/49 A61F13/511 A61F13/53 A61F13/539 A61F5/44 A61L15/60
B32B5/24 D04H1/54 D06C23/04

CPC: A61F13/534 A61F2013/4958 A61F13/53747 B32B5/022 B32B5/142 B32B5/145 B32B5/245 B32B5/26 B32B27/12
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European: A61F13/15J A61F13/511 A61F13/53 A61F13/534 A61F13/537 A61F13/537C2 A61L15/60 B32B27/12 B32B27/32
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US: 156/219 156/219S 156/349 156/349S 156/497 156/522 156/578 428/68 428/68P 428/71 428/71P
442/417 442/417S 604/358 604/367 604/375 604/375P 604/378 604/378S 604/384 604/385.01 604/385.010S 604/385.101
604/385.101S 604/385.23 604/385.230S

Family:

Publication number	Publication date	Application number	Application date
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CN101849876 B	20140903	CN201010156620	20050628
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Priority:

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Inventor(s): FUKAE AKINORIC O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; TAKEUCHI TOMONARI D ; MATSUI TOMOTSUGU TD ; MATSUI TOMOTSUGU DAIO PAPER CONVERTING CO LTD ; KONAWA SATOKO ELLEAIR PAPER TECH CO LTD ; HANAO HIROYUKIC O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; FURUDOI TAKESHI O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; EBITSUKA KEISUKE ELLEAIR PAPER TECH CO LTD ; YANO HIROYUKIC O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; TAKEUCHI TOMONARI ELLEAIR PAPER TECH CO LTD ; MIYASHITA YOSHIHARUC O DAIO PAPER CONVERTCOLTD SHIKOKUCHUO SHI ; MATSUI TOMOTSUGUC O DAIO PAPER CONVERTING COLTD SHIKOKUCHUO SHI ; MANABE SADANAOC O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; MAEDA TOSHIKAZUC O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; KUBO TAIRAC O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; FUKAE AKINORI C O DAIO PAPER CONVERTING CO LTD ; EBITSUKA KEISUKE ELLEAIR PAPER TECH CO LTD SAKURA SHI ; HANAO HIROYUKI KUBO TAIRA MIYASHITA YOSHIHARU MATS ; HANAO HIROYUKI KUBO TAIRA MIYASHITA Y MATSUI TOMOT ; KAMOTO TOMOKA KUBO TAIRA MIYASHITA YOSHIHARU ; KAMOTO TOMOKA KUBO TAIRA MIYASHITA YOSHIHARU MATSU ; YANO HIROYUKI C O DAIO PAPER CONVERTING CO LTD ; YANO HIROYUKI DAIO PAPER CONVERTING CO LTD ; YANO HIROYUKI C O

DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; YANO HIROYUKI C O DAIO PAPER CONVERTING CO LTD ; TAKEUCHI TOMONARI ELLEAIR KONAWA SATOKO ; TAKEUCHI TOMONARI ELLEAIR KONAWA SATOKO ELLEAIR MA ; TAKEUCHI TOMONARI ELLEAIR PAPER TECH CO LTD SAKURA SHI ; TAKEUCHI TOMONARI KONAWA SATOKO EBITSUKA ; TAKEUCHI TOMONARI KONAWA SATOKO EBITSUKA KEISUKE M ; MATSUI TOMOTSUGU DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; MATSUI TOMOTSUGU C O DAIO PAPER CONVERTING COLTD ; MIYASHITA YOSHIHARU DAIO PAPER CONVERTING CO LTD ; MIYASHITA YOSHIHARU DAIO PAPER CONVERTING COLTD ; MIYASHITA YOSHIHARU DAIO PAPER CONVERTING COLTD SHIKOKUCHUO SHI ; MIYASHITA YOSHIHARU C O DAIO PAPER CONVERTCOLTD ; KONAWA SATOKO ELLEAIR PAPER TECH CO LTD SAKURA SHI ; KONAWA SATOKO ELLEAIR PAPER TECH CO LTD SAKURA SHI TOCHIGI ; KUBO TAIRA C O DAIO PAPER CONVERTING CO LTD ; KUBO TAIRA DAIO PAPER CONVERTING CO LTD ; KUBO TAIRA C O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; KUBO TAIRA DAIO PAPER CONVERTING CO LTD EHIME ; KUBO TAIRA C O DAIO PAPER CONVERTING CO LTD ; MAEDA TOSHIKAZU DAIO PAPER CONVERTING CO LTD ; MAEDA TOSHIKAZU DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; MAEDA TOSHIKAZU C O DAIO PAPER CONVERTING CO LTD ; MANABE SADANAO HANAO HIROYUKI FURUDOI TAKESHI ; MANABE SADANAO HANAO HIROYUKI FURUDOI TAKESHI FUKA ; MANABE SADANAO C O DAIO PAPER CONVERTING CO LTD ; FUKAE AKINORI DAIO PAPER CONVERTING CO LTD ; FUKAE AKINORI C O DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; FUKAE AKINORI C O DAIO PAPER CONVERTING CO LTD ; FURUDOI TAKESHI DAIO PAPER CONVERTING CO LTD ; FURUDOI TAKESHI DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; FURUDOI TAKESHI JP ; FURUDOI TAKESHI C O DAIO PAPER CONVERTING CO LTD ; HANAO HIROYUKI DAIO PAPER CONVERTING CO LTD ; HANAO HIROYUKI DAIO PAPER CONVERTING CO LTD SHIKOKUCHUO SHI ; HANAO HIROYUKI KUBO TAIRA MIYASHITA Y ; HANAO HIROYUKI KUBO TAIRA MIYASHITA YOSHIHARU ; HANAO HIROYUKI C O DAIO PAPER CONVERTING CO LTD

Agent(s):

MEISSNER BOLTE AND PARTNER GBR; RPK PATENTANWALTE REINHARDT POHLMANN U KAUFMANN PARTNERSCHAFT MBB; TOLLETT IAN; HELD STEPHAN; QUINN EMANUEL KODA AND ANDROLIA; ANDRUS SCEALES STARKE AND SAWALL LLP; WILLIAM L; H HENRY; DLA PIPER LLP; ANDRUS INTELLECTUAL PROPERTY LAW 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 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: POLYACRYLIC WATER-**ABSORBENT** RESIN POWDER AND METHOD FOR PRODUCING THE SAME

Abstract: A production method of the present invention is a polyacrylic water-**absorbent** resin powder production method including the steps of: producing an acrylic monomer solution in which gas is dissolved and/or dispersed; polymerizing the acrylic monomer solution in the absence of a surface active agent or in the presence of not more than 300 ppm of a surface active agent; during or after the step of polymerizing, fragmenting a hydrated gel crosslinked polymer obtained by polymerizing the acrylic monomer solution; and drying by heat the hydrated gel crosslinked polymer thus fragmented, the gas being dissolved and/or dispersed in the acrylic monomer solution by at least one of the methods (a) to (c): (a) applying pressure to the acrylic monomer solution and the gas; (b) creating swirling flows of the acrylic monomer solution and the gas; and (c) introducing the gas with the acrylic monomer solution via **fine** holes. Accordingly, the production method of the present invention makes it possible to efficiently produce a water-**absorbent** resin having an excellent water-absorption rate without deteriorating a liquid-**absorbent** property of a sanitary product or the like.

Classifications:

International (IPC 8-9): A61F13/53 A61L15/24 A61L15/42 A61L15/48 A61L15/60 B01J20/26 B01J20/28 B01J20/30 B01J20/32 B29B9/06 B29C47/00 B29C47/38 C08C19/00 C08F2/00 C08F2/01 C08F2/04 C08F2/10 C08F2/16 C08F2/34 C08F2/40 C08F2/44 C08F20/00 C08F20/06 C08F20/10 C08F22/02 C08F220/06 C08F220/16 C08F220/20 C08F222/20 C08F6/00 C08F6/04 C08F8/00 C08J3/12 C08J3/24 C08J9/12 C08J9/20 C08J9/30 C08J9/36 C08K3/00 C08K3/30 C08K3/36 C08K5/09 C08K5/098 C08L33/00 C08L33/02 C08L33/08 C08L79/02 (Advanced/Invention); B29B9/16 B29C47/30 B29C47/66 B29C47/92 C08F220/06 C08F222/10 C08F8/00 (Advanced/Non-invention); C08F2/04 C08F20/00 (Core/Invention)

CPC: C08C19/00 C08F20/10 C08F222/20 C08F2/34 C08F8/00 A61L15/24 C08F2/01 C08J9/20 C08J9/36 C08J2203/06 C08J2205/05 C08F2/10 C08F2/16 C08L33/02 C08F222/1013 C08J9/122 C08J2335/02 C08F20/00 C08J3/12 A61L15/48 A61L15/60 C08F20/06 C08J2333/08 C08J2333/10 B29B9/06 B29B2009/161 B29C47/0011 B29C47/30 B29C47/385 B29C47/667 B29C47/92 B29C2947/9259 B29C2947/92704 C08F220/06 C08F222/1006 C08J3/245 C08J2333/02 B01J20/26 C08F2/001 C08F2/24 C08F2/30 C08F6/00 C08F6/26 C08F2810/20 C08J3/24 C08J3/075 C08J2300/14 C08L33/00 Y10T428/2982 B01J20/267 C08F220/20 B01J20/3085 B01J20/3021 B01J20/28016 B01J20/28004 B01J20/3078 B01J20/3007 C08F6/008

European: C08F2/10 C08F2/16 C08F220/06 C08F6/00W C08J3/12 C08J9/20 M08F222/10B M08J203/06 M08J205/050 M08J333/02 M08J333/08 M08J333/10

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PatBase - US2011313113_AA

Patent Application Publication Dec. 22, 2011 Sheet 1 of 5 US 2011/031313 A1

FIG. 1

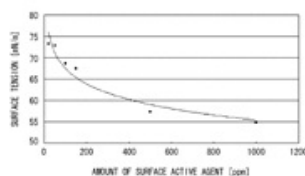
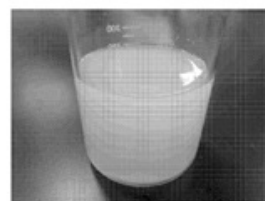


FIG. 2



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): FUJINO SHINICHI ; IKEUCHI HIROYUKI ; IRIE YOSHIO ; ISHIZAKI KUNIHICO ; NIPPON CATALYTIC CHEM IND ; NAKATSURU REIKO ; MACHIDA SAYAKA ; NOGI KOZO ; SAKAMOTO SHIGERU ; TAKAAI TOSHIHIRO ; TORII KAZUSHI ; SHIRAI YOKO ; TACHI KOJI ; WADA HIDENORI ; NIPPOM SHOKUBAI CO LTD

Assignee(s): NIPPOM SHOKUBAI CO ; NIPPON SHOKUBAI CO., LTD. ; NIPPON SHOKUBAI CO

Inventor(s): (std): FUJINO SHINICHI ; IRIE YOSHIO ; ISHIZAKI KUNIHICO ; KAZUSHI TORII ; KOZO NOGI ; KUNIHICO ISHIZAKI ; NOGI KOZO ; REIKO NAKATSURU ; SAKAMOTO SHIGERU ; SHIGERU SAKAMOTO ; TOSHIHIRO TAKAAI ; WADA HIDENORI ; YOSHIO IRIE ; TORII KAZUSHI ; TAKAAI TOSHIHIRO ; TACHI KOJI ; SHIRAI YOKO ; NAKATSURU REIKO ; MACHIDA SAYAKA ; IKEUCHI HIROYUKI ; TORII ICHII ; FUJINO SINICHI

Agent(s): DR SCHOEN NEYMEYR AND PARTNER MBB; DR SCHOEN NEYMEYR U PARTNER PATENTANWAELTE MBB; MAI DOERR BESIER PATENTANWAELTE; TBK; SCHOEN CHRISTOPH; BITTNER THOMAS L; NEYMEYR ULRICH THEODOR PAUL; COPSEY TIMOTHY GRAHAM; HARAKENZO WORLD PATENT AND TRADEMARK; ROYLANCE ABRAMS BERDO AND GOODMAN LLP; CESARI AND MCKENNA LLP; DICKINSON WRIGHT PLLC; CASIMIR JONES SC; HATTA AND ASSOCIATES

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: WATER-DISPERSIBLE AND MULTICOMPONENT FIBERS FROM SULFOPOLYESTERS

Abstract: Disclosed are water-dispersible fibers derived from sulfopolyesters having a Tg of at least 25 degrees centigrade. The fibers may contain a single sulfopolyester or a blend of a sulfopolyester with a water-dispersible or water-nondispersible polymer. Also disclosed are multicomponent fibers comprising a water dispersible sulfopolyester having a Tg of at least 57 degrees centigrade and a water non-dispersible polymer. The multicomponent fibers may be used to produce microdenier fibers. Fibrous articles may be produced from the water-dispersible fibers, multicomponent fibers, and microdenier fibers. The fibrous articles include water-dispersible and microdenier nonwoven webs, fabrics, and multilayered articles such as wipes, gauze, tissue, **diapers**, panty liners, sanitary napkins, bandages, and surgical dressings. Also disclosed is a process for water-dispersible fibers, nonwoven fabrics, and microdenier webs. The fibers and fibrous articles have further applications in flushable personal care and cleaning products, disposable protective outerwear, and laminating binders.

Classifications:

International (IPC 8-9): A41D13/12 A41D19/00 A41D27/12 A47C20/02 A47G9/08 A47K7/02 A61B19/08 A61F13/00 A61F13/15 A61F13/49 A61F13/53 A61F13/551 A61K47/32 A61K47/34 A61K8/02 A61K8/85 A61K8/899 A61K9/00 A61K9/70 A61L15/22 A61L15/44 A61L15/46 A61L9/04 A61P17/00 A61Q13/00 A61Q19/00 A61Q19/10 B01D39/06 B01D39/14 B01F17/00 B02C19/00 B08B1/00 B28B3/20 B29C47/00 B29C47/06 B32B1/02 B32B25/02 B32B25/10 B32B27/02 B32B29/00 B32B3/00 B32B5/02 B32B5/16 B42D15/00 C08G63/00 C08G63/68 C08G63/688 C08G75/24 C08L101/00 C08L67/02 C08L81/08 C11D17/00 C11D3/37 D01D10/00 D01D5/00 D01D5/08 D01D5/088 D01D5/098 D01D5/10 D01D5/12 D01D5/16 D01D5/30 D01D5/32 D01D5/34 D01D5/36 D01F1/00 D01F1/04 D01F1/09 D01F1/10 D01F6/00 D01F6/62 D01F6/84 D01F6/86 D01F6/92 D01F8/00 D01F8/04 D01F8/14 D01F9/00 D02G1/00 D02G1/02 D02G3/00 D02G3/02 D02G3/04 D02G3/22 D02G3/36 D02J1/22 D03D15/00 D03D15/06 D03D23/00 D04B1/16 D04H1/00 D04H1/20 D04H1/42 D04H1/43 D04H1/435 D04H1/4374 D04H1/4382 D04H1/4391 D04H1/46 D04H1/485 D04H1/492 D04H1/50 D04H1/56 D04H13/00 D04H3/00 D04H3/011 D04H3/016 D04H3/02 D04H3/10 D04H3/14 D04H3/147 D04H3/16 D04H5/00 D04H5/10 D04H5/30 D04H5/32 D06M11/00 D06M11/05 D21H13/10 D21H13/20 D21H13/24 D21H13/40 D21H15/10 F21V1/00

H01M2/16 (Advanced/Invention);

D01D5/08 D01D5/34 D01F8/00 D01F8/14 D03D15/06 D04H1/42

D06M101/32 (Advanced/Non-invention);

A61K8/72 A61Q19/00 B28B3/20 B29C47/00 C08G63/00 D01D5/08

D01D5/30 D01F6/00 D01F6/62 D01F6/78 D01F6/84 D01F6/92

D01F8/00 D01F8/14 D02G3/00 D04H1/42 D04H3/00 D04H3/02

D04H3/16 D21H13/00 (Core/Invention)

International (IPC 1-7): B28B3/20 B29C47/00 D01D5/08 D01D5/30

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D04H3/02

CPC: D04B1/16 D03D15/00 D02J1/22 D04H3/10 D04H3/16

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European: A61K8/85 A61Q19/00 D01D5/098B D01D5/36 D01F6/84 D01F6/86 D01F6/92 D01F8/14 D02J1/22 D04H1/42

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D21H15/10

US: 128/849 15/104.93 15/104.930S 15/209.1 162/145 162/145S 162/146 162/146S 162/157.2 162/157.200S 162/157.3

162/157.300P 162/157.300S 2/114 2/114S 2/167 2/46 210/500.1 210/500.100P 241/1 241/1P 264/103 264/103P 264/103S

264/112 264/112 264/112P 264/115 264/115P 264/115S 264/129 264/129S 264/130 264/145 264/145S 264/164 264/172.11

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Family:

Publication number	Publication date	Application number	Application date
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PatBase - WO12054674_A1

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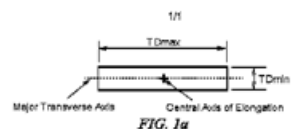


FIG. 1a

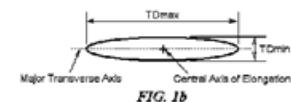


FIG. 1b

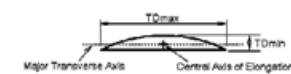


FIG. 1c

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Priority:

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JP20150122040	20150617	JP20160164614	20160825		

Probable Assignee: EASTMAN CHEMICAL CO

Assignee(s): (std): ANDERSON CHRIS DELBERT ; CLARK MARK DWIGHT ; CRAIN ALLEN L ; CRAIN ALLEN LYNN ; EASTMAN CHEM CO ; EASTMAN CHEMICAL CO ; HAILE WILLIAM ALSTON ; GEORGE SCOTT ELLERY ; HALE WESLEY RAYMOND ; HAILE WILLIAM A ; GEORGE SCOTT E ; HALE WESLEY R ; JENKINS WAYLON L ; GUPTA RAKESH K ; FLEENOR CORALIE M ; JENKINS WAYLON LEWELLYN ; KLOSIEWICZ DANIEL W ; SEO KAB S ; SEO KAB SIK ; KLOSIEWICZ DANIEL WILLIAM ; MITCHELL MELVIN GLENN ; GUPTA RAKESH KUMAR ; FLEENOR CORALIE MCKENNA

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

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RAKESH ; ANDERSON CHRIS DELBERT ; CLARK MARK DWIGHT ; CRAIN ALLEN L ; CRAIN ALLEN LYNN ; HAILE WILLIAM ALSTON ; HALE WESLEY RAYMOND ; JENKINS WAYLON LEWELLYN ; HALE WESLEY R ; JENKINS WAYLON L ; KLOSIEWICZ DANIEL W ; KLOSIEWICZ DANIEL WILLIAM ; SCOTT ELLERY GEORGE ; RAKESH KUMAR GUPTA ; JENKINS WAYLON ; HALE WESLEY ; MITCHELL MELVIN GLENN ; MCKENNA FLEENOR CORALIE ; LYNN CRAIN ALLEN ; KUMAR GUPTA RAKESH ; MITCHELL PAULA HINES ; MITCHELL MARVIN LYNN ; MELVIN GLENN MITCHELL ; MITCHELL MELVIN ; KLOSIEWICZ DANIEL ; CROSIEWICZ DANIEL WILLIAM ; CRAIN ALLEN LIN ; MITCHELL MELVIN GLEN ; KLOSIEWICZ DANIEL WILLIAN ; SEO KAB S ; SEO KAB SIK ; SIK SEO KAB ; WILLIAM KLOSIEWICZ DANIEL ; WOLFE AMBER LAYNE

Inventor(s): WOLFE AMBER LAYNE LANDRUM ; ALLEN LYNN CRAIN ; AMBER LAYNE WOLFE ; MELVIN GLEN MITCHELL ; MITCHELL MARVIN LYNN PARKER ; MITCHELL PAULA HINES PARKER ; CRAIN ALLEN ; CLARK MARK DWIGHT KINGSFORT ; SEO KAB ; MITCHELL MELVIN GLENN PENROSE ; KLOSIEWICZ DANIEL WILLIAM KINGSFORT ; MARVIN LYNN MITCHELL ; MARK DWIGHT CLARK ; PAULA HINES MITCHELL ; KAB SIK SEO ; DANIEL WILLIAM KLOSIEWICZ ; CORALIE MCKENNA FLEENOR ; CHRIS DELBERT ANDERSON ; ANDERSON CHRIS DELBERT PERRYSBURG ; FLEENOR CORALIE ; GUPTA RAKESH KUMAR KINGSFORT ; DANIEL WILLIAN KLOSIEWICZ

Agent(s): LEDERER AND KELLER PATENTANWAELTE PARTNERSCHAFT MBB; RICKER MATHIAS ET AL; TOSTMANN HOLGER CARL; BEST MICHAEL ET AL; BEST MICHAEL; BROWN FRASER GREGORY JAMES; DE ELZABURU ALBERTO; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; HOSHINO OSAMU; TOMITA HIROYUKI; ERIC D MIDDLEMAS EASTMAN CHEMICAL CO; POLLY C OWEN EASTMAN CHEMICAL CO; POLLY C OWEN; POLLY C; BERNARD J; TAMMYE L; TAMMYE; OWEN POLLY C

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 YU ZA ZM ZW

Title: **ABSORBENT** ARTICLE

Abstract: The present invention addresses the problem of providing an **absorbent** article in which a bonding part for bonding a liquid-permeable layer to an **absorbent** core has been formed in a low-basis-weight region of the **absorbent** core and which has all of sufficient flexural rigidity of the bonding part, sufficient bonding strength of the bonding part, and sufficient liquid-absorbing properties. This problem is solved with an **absorbent** core which comprises a first region that has a given **absorbent**-material basis weight and second regions (regions 411a, 411b) that have a lower **absorbent**-material basis weight than the first region, wherein the ratio of the basis weight of a highly absorbing polymer to the basis weight of the **absorbent** material in the second regions is regulated to 10/100 to 47/100, and compressed parts are formed inside the second regions.

Classifications:**International (IPC 8-9):** A61F13/15 A61F13/49 A61F13/53

A61F13/533 A61F13/536 A61F13/537

A61F13/539 (Advanced/Invention);

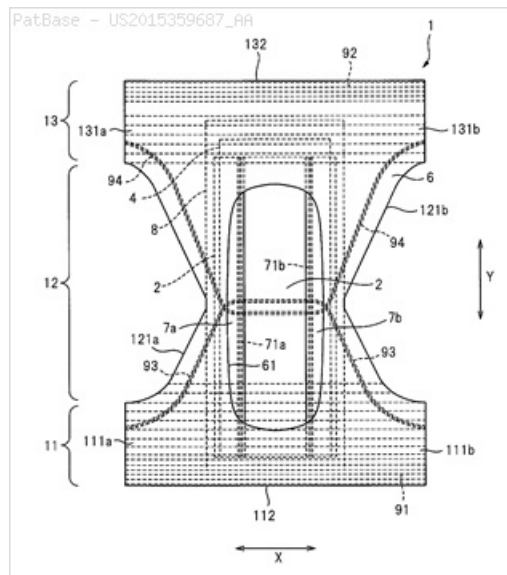
A61F13/53 A61F13/534 (Advanced/Non-invention);

A61F13/15 A61F13/49 (Core/Invention)

CPC: A61F13/536 A61F13/53704 A61F13/15699 A61F2013/530299

A61F2013/530496 A61F2013/5349 Y10T156/10 A61F13/533

A61F13/539 A61F13/1565 A61F2013/530547

US: 156/60 604/380 604/385.101**Family:**

Publication number	Publication date	Application number	Application date
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AU2014208105 BB	20160915	AU20140208105	20140117
BR112015016449 A2	20170711	BR20151116449	20140117
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US9675502 BB	20170613	US20140761764	20140117
WO14112590 A1	20140724	WO2014JP50822	20140117

Priority:

JP20130007732 20130118

EP20140741069 20140117

WO2014JP50822 20140117

Probable Assignee: UNICHARM CORP**Assignee(s):** (std): UNI CHARM CORP ; UNICHARM CORP**Assignee(s):** UNICHARM SHIKOKUCHUO SHI CORP ; UNI CHARM CO LTD**Inventor(s):** (std): AIDA HIROKI ; GODA HIROKI ; HIROKI GODA ; ISHIKAWA SHINICHI ; KAWAMORI RYOTA ; KENGO OCHI ; OCHI KENGO ; RYOTA KAWAMORI ; SHINICHI ISHIKAWA**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; KAHLER KAECK MOLLEKOPF PARTNERSCHAFT VON PATENTANWAELTEN MBB; EKE PHILIPPA DIANNE; DOLLEYMORES; BUDI RAHMAT; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; HAUPTMAN HAM LLP; AOKI ATSUSHI 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 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: MODIFIED CELLULOSE FROM CHEMICAL KRAFT FIBER AND METHODS OF MAKING AND USING THE SAME

Abstract: A modified kraft pulp fiber with unique properties is provided. The modified fiber can be a modified bleached kraft fiber that is almost indistinguishable from its conventional counterpart, except that it has a low degree of polymerization (DP). Methods for making the modified fiber and products made from it are also provided. The method can be a one step acidic, iron catalyzed peroxide treatment process that can be incorporated into a single stage of a multi-stage bleaching process. The products can be chemical cellulose feedstocks, microcrystalline cellulose feedstocks, fluff pulps and products made from them.

Classifications:

International (IPC 8-9): A01N43/16 A21C9/00 A61F A61F13/15 A61F13/49 A61F13/53 A61F13/534 A61F13/537 A61L A61L15/00 A61L15/20 A61L15/28 A61L15/40 A61L15/42 A61L15/48 A61L15/60 B01J B01J20/24 B01J20/28 B44C5/00 C08B15/00 C08B15/02 C08B15/04 C08B3/00 C08L1/04 D01F2/00 D06L3/02 D21C D21C3/02 D21C5/00 D21C9/00 D21C9/10 D21C9/14 D21C9/16 D21H D21H11/04 D21H11/16 D21H11/20 D21H15/00 D21H21/32 (Advanced/Invention); A61L D21C (Subclass/Invention)

International (IPC 1-7): D21C9/10 D21C9/16

CPC: C08B3/00 A01N43/16 C08B15/00 A61L15/20 A61F13/53 B01J20/28023 B01J2220/4825 A61L15/40 A61L15/60 B01J20/24 A61L15/42 D21C9/1036 D21H21/24 D21H21/32 D21H11/18 D21C9/10 D21H11/20 A61L15/28 A61L15/48 D21C3/02 D21C9/007 D21C9/002 D21H11/04 D21H11/16 C08L1/04 Y10T428/298 D21C9/163 D21C9/144

European: D21C9/00B2 D21H11/04 D21H11/16

US: 162/100 162/157.6 162/158 162/231 162/67 162/67P 162/68 162/68S 162/78 162/78S 162/88 428/401 428/401P 502/7 514/57 604/375 604/376

PatBase - US2012175073_AA

Patent Application Publication Jul. 12, 2012 Sheet 1 of 2 US 2012/0175073 A1

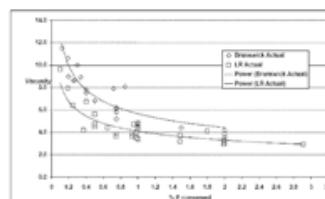


Figure 1. Final 0.5% Capillary CED viscosity as a function of % peroxide (based on pulp) consumed.

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: GP CELLULOSE GMBH

Assignee(s): (std): ABITZ PETER R ; COURCHENE CHARLES E ; DZHIPI SELL JULOUS GMBKH ; NONNI ARTHUR J ; SLONE CHRISTOPHER MICHAEL ; GP CELLULOSE GMBH ; GLAXOSMITHKLINE IP NO 2 LTD

Assignee(s): SLONE CHRISTOPHER M ; TIPPEY DAROLD ; GLAXOSMITHKLINE INTELLECTUAL PROPERTY NO2 LTD

Inventor(s): (std): ABITS PITER R ; ABITZ PETER R ; COURCHENE CHARLES EDWARD ; COURCHERNE CHERLES E ; KURSHEN CHARL Z EH ; NONNI ARTHUR J ; NONNI ARTHUR JAMES ; NONNI ARTUR DZH ; SLONE CHRISTOPHER M ; SLONE CHRISTOPHER MICHAEL ; SLOUN KRISTOFER MAJKL ; TIPPEY DAROLD ; PETER R ABITZ ; CHARLES E COURCHENE ; ARTHUR J NONNI ; MICHAEL SLONE CHRISTOPHER ; DAROLD TIPPEY ; CHRISTOPHER M SLONE ; COURCHENE CHARLES E

Inventor(s): COURCHENE CHARLES E SLONE CHRISTOPHER MICHAEL ABITZ PETER R ; CHRISTOPHER MICHAEL SLONE ; SLONE CHRISTOPHER ; NONNI ARTHUR ; COURCHENE CHARLES ; ABITZ PETER

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; KIRBY EADES GALE BAKER; ALESSANDRI AND COMPANIA LIMITADA; ALESSANDRI Y COMPANIA; BRAND THOMAS LOUIS; FINNEGAN EUROPE LLP; REINHOLD COHN AND PARTNERS; RAM W; LORI ANN; MICHAEL V; STANLEY ROBERT C

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: DISSOLVABLE FIBROUS WEB STRUCTURE ARTICLE COMPRISING ACTIVE AGENTS

Abstract: The personal care compositions of the present invention are in the form of an Article comprising a dissolvable fibrous web structure. The fibers of the dissolvable fibrous web structure comprise a surfactant; a water soluble polymeric structurant; and a plasticizer. Additionally the ratio of the water soluble water soluble polymeric structurant to the active agent in the fiber is 3.5 or less.

Classifications:**International (IPC 8-9):** A23L A23L1/00 A23L1/22 A23L1/221

A23P1/12 A47L13/17 A47L17/04 A61K31/192 A61K31/44 A61K45/00 A61K47/10 A61K47/16 A61K47/18 A61K47/26 A61K47/30

A61K47/32 A61K47/34 A61K47/36 A61K47/38 A61K47/42 A61K8/02

A61K8/18 A61K8/19 A61K8/34 A61K8/36 A61K8/365 A61K8/40

A61K8/44 A61K8/46 A61K8/60 A61K8/64 A61K8/65 A61K8/73

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D06L1/20 (Advanced/Invention);

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D06C15/02 (Advanced/Non-invention);

A23L A61L B29C C08J C11D D01F (Subclass/Invention)

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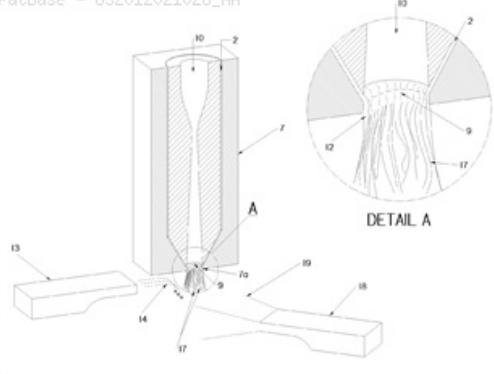
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Inventor(s): HODSON STEPHEN JOSEPH FRANKLIN ; GLENN ROBERT WAYNE ; EBRAHIMPOUR ALYSSANDREA HOPE ; WEISMAN PAUL THOMAS CINCINNATI ; WEISMAN PAUL THOMASUS ; SIVIK MARK ROBERT MASON ; SIVIK MARK ROBERTUS ; TROKHAN PAUL DENNIS HAMILTION ; TROKHAN PAUL DENNIS HAMILTON ; TROKHAN PAUL DENNISUS ; STEVEN RAY GILBERT ; TREVOR JOHN DARCY ; ROBERT WAYNE JR GLENN ; RICHARDS MARK RYAN HAMILTON ; RICHARDS MARK RYANUS ; REYNOLDS GEOFFREY WILLIAM MONTGOMERY ; REYNOLDS GEOFFREY WILLIAMUS ; MICHAEL JOHN GERHARD CINCINNATI ; HAMAD EBRAHIMPOUR ALYSSANDREA HOPE CINCINNATI ; HAMAD EBRAHIMPOUR ALYSSANDREA HOPEUS ; HEINZMAN STEPHEN WAYNE CINCINNATI ; HEINZMAN STEPHEN WAYNEUS ; HODSON STEPHEN JOSEPHUS ; JAMES MICHAEL DAVID CINCINNATI ; JAMES MICHAEL DAVIDUS ; GILBERT STEVEN RAY FAIRFIELD ; GLENN ROBERT WAYNE JR LIBERTY TOWNSHIP ; GLENN ROBERT WAYNE JRUS ; GORDON GREGORY CHARLES LOVELAND ; GORDON GREGORY CHARLESUS ; DARCY TREVOR JOHN WEST CHESTER ; DENOME FRANK WILLIAM CINCINNATI ; DENOME FRANK WILLIAMUS ; DREHER ANDREAS JOSEF CINCINNATI

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MBM INTELLECTUAL PROPERTY LAW LLP; KIRBY EADES GALE BAKER; TORYS LLP; HEIDE UTE; PICKFORD JAMES LAWRENCE; MAROLLE PATRICK PIERRE PASCAL; CANONICI JEAN JACQUES; GOODIER CLAIRE LOUISE; PATENT BOUTIQUE LLP; KREMER VERONIQUE MARIE JOSEPHINE; DEL VALLE SONIA; TANI AND ABE PC; SOGA MICHIHARU; NAGAI HIROSHI; RYBINOJ NA; C BRANT; ANGELA K; AMANDA; ALEXANDER S; THE PROCTER AND GAMBLE COMPANY

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: MULTILAYER **NON-WOVEN** FABRIC AND USE THEREOF

Abstract: A multilayer **non woven** fabric having a polypropylene spun bonded **non woven** fabric and a polypropylene melt blown **non woven** fabric, characterized in that it has a bending resistance, the sum of the values for longitudinal and transverse directions as measured according to JIS L 1096 6. 19.1 A method (45 degree cantilever method) of 70 to 120 mm, the surface of the spun bonded **non woven** fabric has a static friction coefficient of 0.1 to 0.4. The multilayer **non woven** fabric preferably has a polypropylene melt brown **non woven** fabric layer between polypropylene spun bonded **non woven** fabric layers.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/514 B32B27/32 B32B5/26 D04H13/00 D04H3/00 D04H3/007 D04H3/16 D06M17/00 (Advanced/Invention); D04H3/16 (Advanced/Non-invention); D04H3/16 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/514 B32B27/32 B32B5/26 D04H3/00 D04H3/16 D06M17/00

CPC: Y10T442/60 Y10T442/681 B32B5/26 D04H1/559 D04H1/56 D04H3/14 B32B27/32

European: B32B27/32 B32B5/26 D04H13/00B2

US: 442/327 442/401

PatBase -	중구명 030045형호 L R	* 섬유 직경 (mm)	(g/m ²)	테스트 조건		
				면적률 %	압력 N/cm	온도(℃) 염도성속/ 플렉스
실시예 1		S/M/S 17/1/17	7/3/7	20	500	135/135
비교예 1		S/M/S 17/1/17	7/3/7	20	500	135/135
비교예 2		S 14	17	20	500	130/130
비교예 3		S 18	18	20	500	135/135
* S: 스펠본드 부직포 M: 멜트 블로우 부직포						

Family:

Publication number	Publication date	Application number	Application date
AU2001288051 AA	20020326	AU20010288051	20010917
AU200188051 A1	20020326	AU20010088051	20010917
AU200188051 A5	20020326	AU20010088051	20010917
CN1646753 A	20050727	CN20018019002	20010917
EP1327713 A1	20030716	EP20010967702	20010917
EP1327713 A4	20061122	EP20010967702	20010917
JP2002088633 A2	20020327	JP20000282065	20000918
KR100776878 B1	20071119	KR20037003835	20010917
KR20030045070 A	20030609	KR20037003835	20010917
TWI249594 B	20060221	TW20010123419	20010919
US2004058610 AA	20040325	US20030380168	20030926
WO0222933 A1	20020321	WO2001JP08051	20010917

Priority:

JP20000282065 20000918 WO2001JP08051 20010917 WO2001JP08051 20030317

Probable Assignee: IDEMITSU KOSAN CO LTD

Assignee(s): (std): IDEMITSU KOSAN CO LTD ; IDEMITSU UNITECH CO LTD ; ISHIKAWA MASAHIDE ; KURAHASHI AKIHIKO

Assignee(s): IDEMITSU UNITECH CO

Inventor(s): (std): AKIHIKO KURAHASHI ; MASAHIDE ISHIKAWA ; KURAHASHI AKIHIKO ; ISHIKAWA MASAHIDE

Agent(s): ISHIZAKI TAKESHI; NAKAYAMA KANJI; TOHEI MASAMICHI; KINOSHITA JITSUZO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH 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: PROCESSES TO PRODUCE SHORT CUT MICROFIBERS

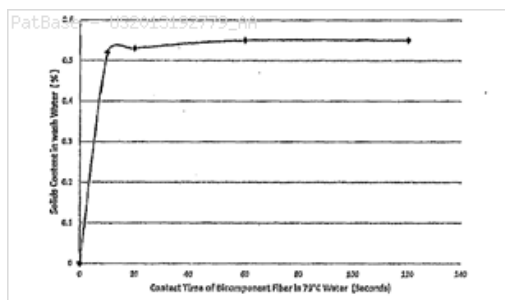
Abstract: A process for producing a microfiber product stream, the process comprising: (A) contacting short cut multicomponent fibers having a length of less than 25 millimeters with a heated aqueous stream in a mix zone to produce a short cut multicomponent fiber slurry; (B) routing the short cut multicomponent fiber slurry and optionally, a heated aqueous stream, to a fiber opening zone to remove a portion of the water dispersible sulfopolyester to produce an opened microfiber slurry; and (C) routing the opened microfiber slurry to a primary solid liquid separation zone to produce the microfiber product stream and a first mother liquor stream.

Classifications:

International (IPC 8-9): A61K39/395 A61P29/00 B01D11/02 B01D12/00 B29B17/00 B29B17/04 C07K C07K16/18 C08G63/688 C08J3/02 D01F6/62 D01F8/14 D04H1/00 D04H1/435 D04H1/4382 D04H1/70 D21H13/24 D21H15/10 D21H17/58 D21H21/18 G10L15/26 (Advanced/Invention); A61P29/00 C07K16/18 (Core/Invention); C07K (Subclass/Invention)

CPC: D21H13/24 D04H1/4382 D01F8/14 D04H1/72 B01D11/0288 D21H15/10 D21H21/18 D21H17/58 B01D12/00 C08G63/6886 C07K16/28 A61K39/00 A61K2039/505 C07K16/18 C07K2317/21 C07K2317/56 C07K2317/565 C07K2317/76 C07K2317/92

US: 1/1 162/146 162/157.3 210/774 210/781 210/783 210/800 210/806

**Family:**

Publication number	Publication date	Application number	Application date
BR112014018651 A2	20170704	BR20141118651	20130130
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BR112014018705 A8	20170711	BR20141118705	20130124
BR112014018706 A2	20170620	BR20141118706	20130124
BR112014018706 A8	20170711	BR20141118706	20130124
BR112014018711 A2	20170620	BR20141118711	20130124
BR112014018711 A8	20170711	BR20141118711	20130124
CN104520484 A	20150415	CN201380015558	20130124
CN104520484 B	20170623	CN201380015558	20130124
CN104736752 A	20150624	CN201380015548	20130124
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DE602013029784 D1	20171228	DE201360029784T	20130124
DE602013032464 D1	20180301	DE201360032464T	20130124
DK2809412 T3	20180122	DK20130743534T	20130124
DK2809413 T3	20180319	DK20130743548T	20130124
DK2810276 T3	20180122	DK20130744040T	20130124
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EP2809412 A4	20160309	EP20130743534	20130124
EP2809412 B1	20171122	EP20130743534	20130124
EP2809413 A2	20141210	EP20130743548	20130124
EP2809413 A4	20160309	EP20130743548	20130124
EP2809413 B1	20180124	EP20130743548	20130124
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JP6192662 B2	20170906	JP20140555584T	20130124
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KR20140119785 A	20141010	KR20147024046	20130124
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US2013192780 AA	20130801	US20120687493	20121128
US2013193085 AA	20130801	US20120687466	20121128
US2013193086 AA	20130801	US20120687472	20121128
US2013277320 AA	20131024	US20120687505	20121128
US2015007955 AA	20150108	US20140490084	20140918
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US8906200 BB	20141209	US20120687493	20121128
US9175440 BB	20151103	US20140490084	20140918
WO13116066 A1	20130808	WO2013US22830	20130124

WO13116067 A2	20130808	WO2013US22832	20130124
WO13116067 A3	20150219	WO2013US22832	20130124
WO13116067 A8	20140828	WO2013US22832	20130124
WO13116068 A2	20130808	WO2013US22834	20130124
WO13116068 A3	20150219	WO2013US22834	20130124
WO13116069 A2	20130808	WO2013US22835	20130124
WO13116069 A3	20150219	WO2013US22835	20130124
WO13116069 A8	20140904	WO2013US22835	20130124
WO13116070 A1	20130808	WO2013US22838	20130124
WO13116070 A8	20130919	WO2013US22838	20130124

Priority:

US20120592854P 20120131	US20120592837P 20120131	US20120592867P 20120131
US20120592917P 20120131	US20120592974P 20120131	US20120592876P 20120131
US20120644038P 20120508	US20120692925P 20120824	US20120587505 20121128
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EP20130743548 20130124	EP20130744040 20130124	WO2013US22832 20130124
WO2013US22834 20130124	WO2013US22835 20130124	WO2013US23784 20130130
US20140490084 20140918		

Probable Assignee: EASTMAN CHEMICAL CO

Assignee(s): (std): EASTMAN CHEM CO ; EASTMAN CHEMICAL CO ; MUNJAL RAMESH CHAND ; TREMAINE DUSTIN A ; ROGERS JR DAVID J ; KLOSIEWICZ DANIEL WILLIAM ; PARKER KENNY RANDOLPH ; REGENERON PHARMA

Assignee(s): REGENERON PHARMACEUTICALS INC ; EASTMAN CHEMICAL CO ; EASTMAN CHEMICAL CO KINGSPORT

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Inventor(s): TREMAINE DUSTIN A KINGSPORT ; ROGERS DAVID J JR KINGSPORT ; PARKER KENNY RANDOLPH AFTON ; RAMESH CHAND MUNJAL ; RAMESHCHAND MUNJAL ; MUNJAL RAMESH CHAND KINGSPORT ; KLOSIEWICZ DANIEL WILLIAM KINGSPORT ; MORRA MARC ; JR ; KENNY RANDOLF PARKER ; KENNY RANDOLPH PARKER ; DANIEL WILLIAM KLOSIEWICZ ; DAVID J ROGERS ; DUSTIN A TREMAINE

Agent(s): LEDERER AND KELLER PATENTANWALTE PARTNERSCHAFT MBB; BEST MICHAEL; SANFORD TCOLB AND CO; PEARL COHEN ZEDEK LATZER BARATZ; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; POLLY C; OWEN POLLY C

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: Polyester tying tape-like materials

Abstract: Tying tape-like materials formed by extrusion molding, comprising as a main component an aliphatic polyester having a melt viscosity of 1.0x103-4.0x104 poises at a temperature of 190 DEG C. and a shear rate of 100 sec-1, and having a melting point of 70 DEG -190 DEG C. The present invention provides tying tape-like materials excellent in heat stability, mechanical strength and packing property as well as having biodegradability which can be used as packing materials.

Classifications:

International (IPC 8-9): A24D3/08 A61L15/26 A61L15/62 B29C45/00 B29C47/00 B29C49/00 B29C51/00 B29C55/00 B29C55/02 B29C55/28 B29C55/30 B32B27/00 B32B27/10 B32B27/36 B32B37/15 B65D63/00 B65D63/10 B65D65/40 C08G18/08 C08G18/42 C08G18/48 C08G63/00 C08G63/12 C08G63/16 C08G63/20 C08G63/685 C08G63/78 C08G63/91 C08J3/24 C08J5/00 C08J5/18 C08J9/04 C08J9/06 C08J9/10 C08J9/14 C08J9/16 C08J9/18 C08J9/22 C08J9/228 C08K3/00 C08K3/18 C08L101/16 C08L67/00 C08L67/02 C08L75/06 C09J7/02 D01D5/42 D01F6/62 D01F6/70 D01F6/84 D01F6/92 D01F8/04 D01F8/14 D01F8/16 D02G3/02 D02J1/18 D04H1/42 D04H1/435 D04H1/4382 D04H1/54 D04H1/541 D04H13/02 D06M15/572 D06N3/14 D21H19/24 (Advanced/Invention); B29K67/00 B29L7/00 C08G63/16 C08G63/685 C08J5/18 C09J7/02 (Advanced/Non-invention); A24D3/00 A61L15/16 B29C45/00 B29C47/00 B29C49/00 B29C51/00 B29C55/00 B29C55/28 B29C55/30 B29D22/00 B29K67/00 B29K75/00 B29L7/00 B32B27/00 B32B27/10 B32B27/36 B32B29/00 B32B31/30 B65D63/00 B65D63/10 B65D65/40 C07C265/00 C08F20/00 C08F20/34 C08G18/00 C08G18/34 C08G18/42 C08G63/00 C08G63/12 C08G63/16 C08G63/685 C08G63/91 C08G75/00 C08J3/24 C08J5/00 C08J5/18 C08J9/04 C08J9/06 C08J9/10 C08J9/14 C08J9/16 C08J9/18 C08J9/228 C08K3/00 C08K3/18 C08L67/00 C08L67/02 C08L75/06 C09J7/02 D01D5/42 D01F6/62 D01F6/70 D01F6/84 D01F6/92 D01F8/04 D01F8/14 D02G3/02 D02J1/00 D04H1/42 D04H1/54 D04H13/02 D06M15/572 D06N3/14 D21H19/24 (Core/Invention); C08J5/18 C09J7/02 (Core/Non-invention)

International (IPC 1-7): A24D3/08 A61L15/26 A61L15/62 B29C45/00 B29C47/00 B29C49/00 B29C51/00 B29C55/00 B29C55/02 B29C55/28 B29C55/30 B29D22/00 B29K67/00 B29K75/00 B29L7/00 B32B27/00 B32B27/10 B32B27/36 B32B29/00 B32B31/30 B65D63/00 B65D63/10 B65D65/40 C07C265/00 C08F20/00 C08F20/34 C08G18/00 C08G18/34 C08G18/42 C08G63/00 C08G63/12 C08G63/16 C08G63/685 C08G63/91 C08G75/00 C08J3/24 C08J5/00 C08J5/18 C08J9/04 C08J9/06 C08J9/10 C08J9/14 C08J9/16 C08J9/18 C08J9/228 C08K3/00 C08K3/18 C08L67/00 C08L67/02 C08L75/06 C09J7/02 D01D5/42 D01F6/62 D01F6/70 D01F6/84 D01F6/92 D01F8/04 D01F8/14 D02G3/02 D02J1/18 D04H1/42 D04H1/54 D04H13/02 D04H3/00 D06M15/572 D06N3/14 D21H19/24

CPC: B29K2003/00 D04H13/02 B29C45/0001 B29K2995/0059 C08G63/91 Y10T428/1352 C08J9/18 C08J9/04 C08J9/06 C08J9/14 C08J2367/00 Y10T428/2969 Y10T428/1303 Y10T428/2839 Y10T428/2848 Y10T442/696 B32B27/10 B32B27/36 C08G18/0895 C08G18/4236 C08G18/4238 C08G18/4241 C08G18/4283 C08G18/4286 C08G18/4854 C08G63/16 C08G63/20 C08G63/916 C08G2101/00 C08G2101/0008 C08G2230/00 C08G2250/00 C08J5/18 C08J2201/03 C08J2367/02 C08J2375/06 D01D5/42 D01F6/625 D01F6/70 Y10T428/31551 Y10T428/3179 Y10T442/2025 Y02W90/13 Y02W90/12

European: B29C45/00B B32B27/10 B32B27/36 C08G18/08R C08G18/42C C08G18/42C3 C08G18/42C3D C08G18/42H6 C08G18/42H8 C08G18/48H C08G63/16 C08G63/20 C08G63/91D2 C08J5/18 C08J9/04 C08J9/06 C08J9/14 C08J9/18 D01D5/42 D01F6/62B D01F6/70 D04H13/02 L29K3/00 L29K995/00F14 M08G101/00 M08G101/00B M08G230/00 M08G250/00 M08G63/91 M08J201/030 M08J367/00 M08J367/02 M08J375/06

US: 264/177.1 264/177.17 264/210.7 264/331.11 428/224 428/290 428/34.2 428/35.7 428/352 428/354 428/395 428/423.1 428/481 442/414 442/62 521/159 521/172 521/173 521/174 521/182 523/102 524/539 524/590 524/602 525/437 525/440 525/440.01 525/440.08 525/440.12 525/440.13 525/440.14 525/440.15 528/272 528/288 528/296 528/300 528/301 528/302 528/307 528/308 528/308.6 528/350 528/353 528/502 528/502.00R 528/502R 528/66 528/80 528/81 528/83

Family:

Publication number	Publication date	Application number	Application date
DE69314720 D1	19971127	DE19936014720	19930419
DE69314720 T2	19980604	DE19936014720T	19930419
DE69315252 D1	19980102	DE19936015252	19930419
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EP0569144 A3	19931201	EP19930302972	19930419
EP0569144 B1	19971119	EP19930302972	19930419

PatBase - 28671138 B2

	引張特性		剛性 (kg/cm ²)	ノッチ付 アイソゾ ト衝撃強 度 (kg/cm ²)	グートイン バクト衝撃 値 (23℃) (kg-cm)	燃焼発熱量 (kcal/kg)	容 器 成 形 性	生 分 解 性
	破断強度 (kg/cm ²)							
	MD	TD						
実施例1	580	500	7600	1.2	160	4200	良	A
実施例2	600	520	8200	1.0	130	3600	良	A
実施例3	560	480	7000	1.3	160	4150	良	A
実施例4	500	405	7500	2.0	175	4140	良	A
比較例1	シート成形できず		--	--	--	4140	--	--

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Designated states: DE FR GB IT

Title: POLYOLEFIN-BASED ELASTIC MELTBLOWN FABRICS

Abstract: Disclosed herein is a process for forming a multilayer construction, and the multilayer constructions including at least one layer of an elastic meltblown fabric, the process comprising extruding one or more polyolefin polymer (e.g., a propylene-a-olefin copolymer) having a MFR from less than 90 dg/min through at least one die having a plurality of nozzles to form a plurality of continuous fibers, at least one die operating at a melt pressure from greater than 500 psi (3.45 MPa) to form at least one elastic meltblown fabric, and adhering the at least one elastic meltblown fabric to at least one extensible fabric.

Classifications:

International (IPC 8-9): A41D1/00 A47J A61F13/00 A61F13/15

A61F13/20 A61F13/472 A61F13/49 A61F13/514 A61F13/56
A61F13/62 A61L15/22 A61L15/24 B29C39/20 B29C47/00 B29C47/06
B29C47/12 B29C47/78 B29C47/88 B29C49/00 B29C65/00
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D04H1/4382 D04H1/46 D04H1/498 D04H1/54 D04H1/544 D04H1/559
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D06N1/00 (Advanced/Invention);

A61F13/00 B29C65/18 B32B27/32 B32B5/26 B32B7/12 D01F6/06 D01F6/46 D04H1/54 D04H13/00 (Advanced/Non-invention);

A61F13/15 A61F13/56 B29C47/00 B29C47/12 B29C65/18 B32B25/00 B32B27/12 B32B27/32 B32B3/10 B32B37/00

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D04H1/56 D04H13/00 D04H3/16 (Core/Invention);

A61F13/15 A61L15/24 B32B25/10 B32B27/32 B32B37/00 B32B5/02 B32B5/04 B32B5/22 B32B5/26 B32B7/04

D04H13/00 (Core/Non-invention)

International (IPC 1-7): B32B25/10 B32B27/32 B32B5/04 B32B5/26 B32B7/02

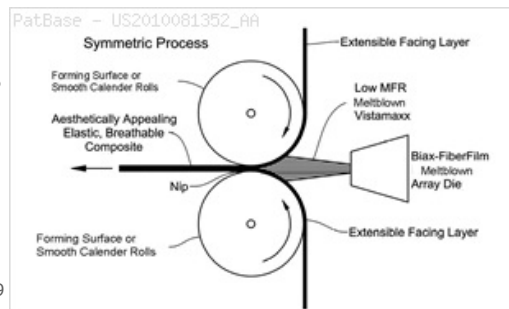
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European: B29C41/26 B29C41/32 B29C51/22B B29C51/26M2 B29C65/02T10 B29C65/40 B29C66/438 B29C66/439
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L32B307/510 L32B307/540 L32B37/00E M08L23/04 M08L23/08

US: 1/1 156/148 156/148S 156/182 156/219 156/219S 156/244.11 156/244.110S 156/308.2 156/308.200S 156/308.4
156/308.400S 156/501 156/501S 156/60 156/62.4 156/62.400S 2/69 264/103 264/103S 264/171.1 264/171.100S
264/172.19 264/172.190S 264/173.19 264/173.190S 264/248 264/248S 264/471 264/471S 264/510 264/510S 425/462
425/462S 428/113 428/156 428/156S 428/172 428/172P 428/179 428/179S 428/182 428/182S 428/196 428/196S 428/212
428/212P 428/517 428/517S 428/521 428/521S 442/1 442/1S 442/268 442/268S 442/278 442/327 442/328 442/328P
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Family:

Publication number	Publication date	Application number	Application date
AR073521 AA	20101110	AR2009P103745	20090929
AR073705 AA	20101124	AR2009P103746	20090929
AR073873 AA	20101209	AR2009P103966	20091015
AR073874 AA	20101209	AR2009P103967	20091015
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW