

1) Family number: 31418010 (US2004258910A)

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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 D01F6/62 D01F6/84 D01F6/86 D01F6/92 D01F8/14 D02G3/00 D04H3/02

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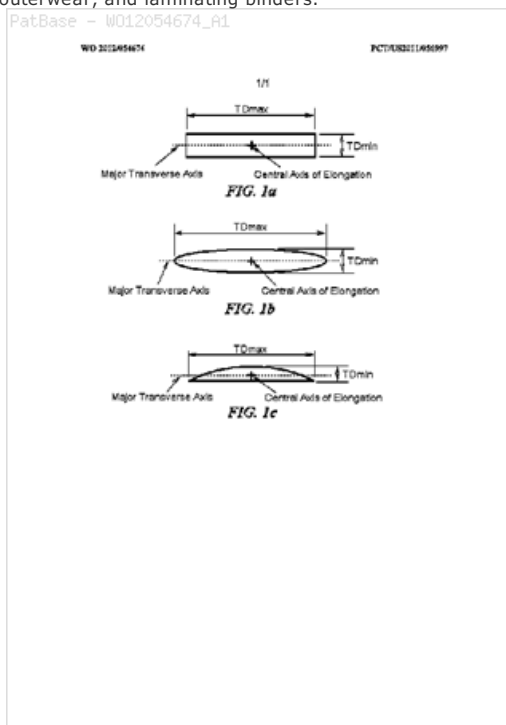
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European: A61K8/85 A61Q19/00 D01D5/098B D01D5/36 D01F6/84 D01F6/86 D01F6/92 D01F8/14 D02J1/22 D04H1/42 D04H1/4291 D04H1/435 D04H1/4382 D04H1/56B D04H13/00B2 D04H3/10 D04H3/16 D21H13/20 D21H13/24 D21H13/40 D21H15/10

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 2/167 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 264/164 264/172.11 264/172.110S 264/172.13 264/172.130P 264/172.130S 264/172.14 264/172.15 264/172.150P 264/172.150S 264/172.16 264/172.160S 264/172.17 264/172.170S 264/172.18 264/172.180S 264/173.16 264/173.160S 264/173.19 264/173.190S 264/176.1 264/176.100S 264/178.00FS 264/178F 264/210.6 264/210.8 264/211 264/211.12 264/211.120S 264/211.14 264/211.140S 264/211.15 264/211.16 264/211.22 264/211.220S 28/140 283/72 362/351 424/400 424/401 424/401P 424/443 424/443P 424/443S 425/437 428/141 428/221 428/221S 428/296.7 428/323 428/323S 428/338 428/35.2 428/35.5 428/357 428/357S 428/359 428/364 428/364P 428/364S 428/365 428/365S 428/367 428/367P 428/370 428/372 428/372S 428/373 428/373P 428/373S 428/374 428/374S 428/395 428/401 428/401S 429/247 442/123 442/164 442/164S 442/181 442/181S 442/189 442/199 442/199S 442/200 442/200P 442/201 442/201S 442/296.7 442/327 442/327S 442/335 442/337 442/340 442/344 442/344S 442/351 442/351P 442/361 442/361S 442/362 442/362S 442/363 442/363S 442/364 442/364P 442/400 442/400S 442/401 442/401S 442/408 442/408S 442/409 442/409S 442/414 442/415 5/413R 5/653 510/130 510/130S 510/445 510/445S 510/476 510/476S 512/4 512/4S 514/772.3 514/772.300P 514/772.300S 516/200 516/200S 523/105 523/105S 524/500 524/500S 525/437 525/437P 525/535 525/535S 528/293 528/295 528/360 528/360S 55/527 55/527S 602/43 602/43P 602/48 604/358 604/359 604/359P 604/367 604/367S 604/372 604/372S

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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JP20150122040 20150617 JP20160164614 20160825

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

2) Family number: 62152019 (US2016106635A)

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Title: HIGH STRENGTH MICROCAPSULES

Abstract: High strength, high integrity microcapsules containing a hydrophobic core material wherein said microcapsule walls are formed of copolymers of select monomers through a multistep oil-in-water emulsification polymerization process.

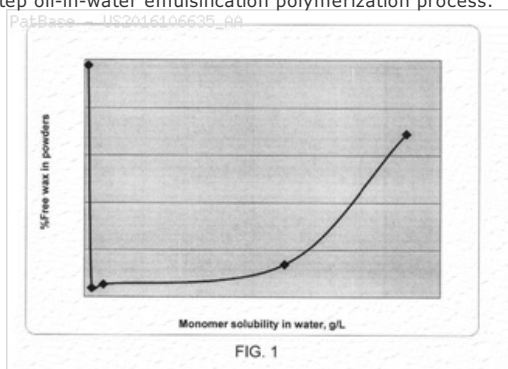
Classifications:

International (IPC 8-9): A61K8/02 A61K8/04 A61K8/11 A61K8/46 A61K8/81 A61K8/84 A61K9/50 A61L15/22 A61L15/46 A61L15/60 A61L9/012 A61Q13/00 A61Q15/00 A61Q19/00 A61Q19/10 A61Q5/02 B01F3/00 B01J13/14 B01J13/16 B01J13/18 C08F2/18 C08F2/22 C08F2/44 C08F283/00 C11B9/00 C11D11/00 C11D11/02 C11D17/00 C11D17/04 C11D17/06 C11D3/00 C11D3/37 C11D3/50 C11D7/22 D06L1/12 (Advanced/Invention); A61Q13/00 (Advanced/Non-invention) **CPC:** B01J13/14 A61K8/8141 C11D17/0017 C11D11/02 C11D3/3765 C11D17/041 A61L9/012 A61K8/042 A61L15/225 A61K8/8152 A61K2800/594 A61K2800/63 A61Q13/00 B01F3/00 B01J13/16 A61K8/8147 A61K8/8158 A61K8/84 C11D3/3723 C11D3/3761 A61K8/11 A61K8/8129 A61K9/5026 A61K9/5089 A61K2800/10 A61K2800/412 A61Q5/02 A61Q15/00 A61Q19/00 A61Q19/10 C11D3/505 C11D17/0039 A61K2800/56 A61L15/46 A61L15/60 C11B9/00 C11D3/001 C11D3/0015 C11D11/0017 C11D11/0023 C11D17/0013 C11D17/06

US: 1/1 264/4.7 424/401 424/65 424/66 424/76.5 424/76.6 510/108 510/418 510/515 510/520 512/4

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20190378648	20190409	US20190520884	20190724		

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BOBNOCK ROBERT STANLEY ; DUAN BIAO ; ENCAPSYS LLC ; SCHWANTES TODD ARLIN ; FENG LINSHENG ; PROCTER AND GAMBLE ; YAN NIANXI

Assignee(s): WELD ON ADHESIVES INC ; IPS ADHESIVES LLC ; IPS CORP ; IPS STRUCTURAL ADHESIVES INC ; WATERTITE PRODUCTS INC ; PROCTER AND GAMBLE CO ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS

Inventor(s): (std): BOBNOCK ROBERT STANLEY ; SCHWANTES TODD ARLIN ; FENG LINSHENG ; DUAN BIAO ; YAN NIANXI

Agent(s): PEET JILLIAN WENDY; NAGAI HIROSHI; EDWARD K; IP AND L SOLUTIONS; JAMES F; STEVEN W; WELCH II EDWARD K; DARLEY EMERSON GREGORY S; ENCAPSYS LLC

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

3) Family number: 41786029 (US2008108863A)

© PatBase

Title: WOMAN'S HEATING DEVICE FOR HEIGHTENING SEXUAL EXPERIENCE DURING COITUS

Abstract: A method for enhancing sexual encounter of a woman during coitus includes heating a heat transfer pack that radiates heat; thereafter, warming the labia and clitoris of the woman by positioning the heat transfer pack in the pelvic region of a woman so that the heat transfer pack radiates heat from the pouch to the pelvic region of the woman, the positioning of the heat transfer pack including securing the heat transfer pack to the legs and waist of the woman; and once the clitoris and labia has been warmed, engaging in intercourse with the clitoris and labia in the warmed state. A method for facilitating the enhancement of a woman's sexual encounter during coitus includes the steps of selling a heating apparatus and, in conjunction therewith, providing appropriate instructions for use of the heating apparatus for the enhancement of a woman's sexual encounter during coitus.

Classifications:

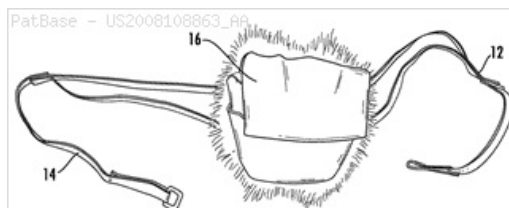
International (IPC 8-9): A61F5/00 A61F7/00 (Advanced/Invention);

A61F5/00 A61F7/00 (Core/Invention)

CPC: A61F7/02 A61F2007/005 A61F2007/023

European: A61F7/02 K61F7/00A6B K61F7/02G2P

US: 600/38 607/108 607/114



Family:

Publication number	Publication date	Application number	Application date
US2008108863 AA	20080508	US20070936031	20071106

Priority:

US20060864415P	20061106	US20070936031	20071106
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Probable Assignee: STEPHENSON KAREN H

Assignee(s): (std): STEPHENSON KAREN H

Inventor(s): (std): STEPHENSON KAREN H

Agent(s): TILLMAN WRIGHT PLLC

4) Family number: 70782053 (US2018230242A)

© PatBase

Title: ACTIVATED PECTIN-CONTAINING BIOMASS COMPOSITIONS, PRODUCTS, AND METHODS OF PRODUCING

Abstract: Methods for producing an activated pectin-containing biomass composition are provided. The method includes (A) mixing a starting pectin-containing biomass material comprising an insoluble fiber component and an insoluble protopectin component with an aqueous solution of an alcohol to form a mixture; (B) activating the starting pectin-containing biomass material to form an activated pectin-containing biomass material comprising the insoluble fiber component and a soluble pectin component by subjecting the starting pectin-containing biomass material to (i) an activating solution formed by adding acid to the mixture to adjust the pH of the mixture within the range from at or about 0.5 to at or about 2.5 and (ii) heat to a temperature greater than at or about 40 degrees Celsius; and (C) applying mechanical energy either (i) to the mixture of step A), (ii) during the activating of step B), or (iii) to the mixture of step A) and during the activating of step B); and (D) separating the activated pectin-containing biomass material from the mixture; wherein during the method the alcohol present in the mixture is at or greater than about 40 weight percent based on the total weight of the mixture. Activated pectin-containing biomass compositions are also provided.

Classifications:

International (IPC 8-9): A23C9/137 A23L19/00 A23L29/231

A23L33/24 C08B37/00 C08B37/06 C08L1/02

C08L5/06 (Advanced/Invention)

International (IPC 1-7): C08B37/00

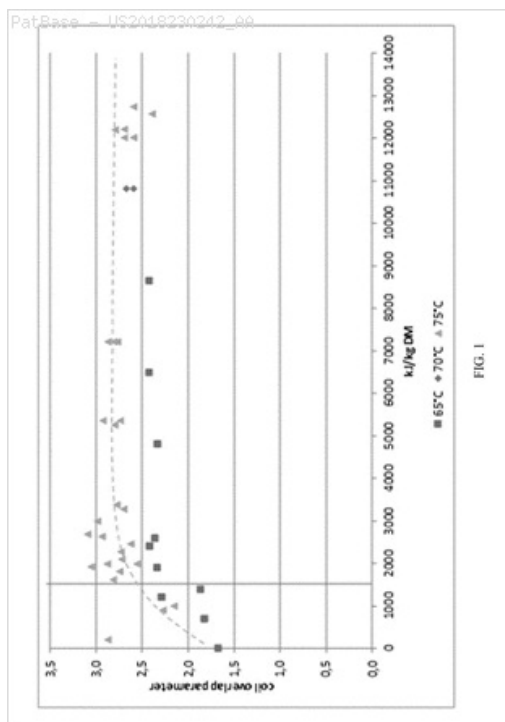
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A61K2800/00 A61K2800/48 A61Q19/00 C08B37/0006 C08B37/0045

C08L5/06 C08B37/00

US: 1/1 426/616



Family:

Publication number	Publication date	Application number	Application date
AR110981 AA	20190522	AR2018P100362	20180215
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Priority:

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US20180218572	20181213	CL20190002256	20190809	CL20190002472	20190827

Probable Assignee: CP KELCO APS
Assignee(s): (std): CP KELCO APS
Assignee(s): CP KELCO US INC ; HISCOCK DONALD F ; KLIT CARSTEN ; STAUNSTRUP JAN AAE ; TRUDSO JENS ESKIL ; PEDERSEN TOMMY EWI
Inventor(s): (std): PEDERSEN TOMMY EWI ; HISCOCK DONALD F ; TRUDSO JENS ESKIL ; KILT CARSTEN ; CARSTEN KLIT ; CLARK ROSS C ; HENRIKSEN WENCKE DYBVIK ; GRAVERSEN HEIDI MUNCK ; TOMMY EWI PEDERSEN ; DONALD F HISCOCK ; JENS ESKIL TRUDSO ; JAN AAE STAUNSTRUP ; STAUNSTRUP JAN AAE ; KLIT CARSTEN
Inventor(s): TRUDSOE JENS ESKIL ; HISCOCK DONALD F SAINT LOUIS ; DONALD F
Agent(s): WRAYS PTY LTD; ROBIC; JORGE GARAY PEREZ; MURGITROYD AND CO; ELZABURU SLP ELZABURU SLP; ELZABURU SLP; ZEHRA YILDIRIM; MERCHANT AND GOULD PC
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 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

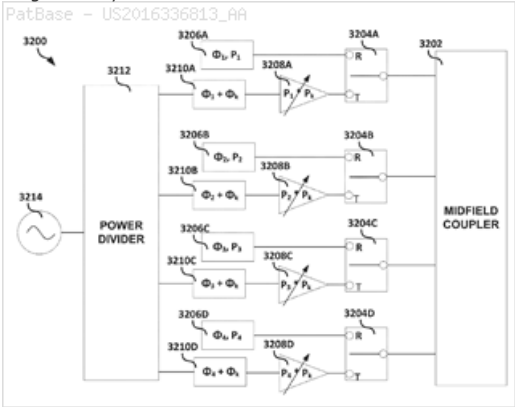
5) Family number: 60908102 (US2016336813A) © PatBase

Title: MIDFIELD COUPLER

Abstract: Described herein are devices, systems, and methods for wireless power transfer utilizing a midfield source and implant. In one variation, a midfield source may be realized by a patterned metal plate composed of one of more subwavelength structures. These midfield sources may manipulate evanescent fields outside a material (e.g., tissue) to excite and control propagating fields inside the material (e.g., tissue) and thereby generate spatially confined and adaptive energy transport in the material (e.g., tissue). The energy may be received by an implanted device, which may be configured for one or more functions such as stimulation, sensing, or drug delivery.

Classifications:

International (IPC 8-9): A61B18/12 A61B18/14 A61B18/18 A61B5/00 A61B5/04 A61B5/0408 A61B5/0478 A61B5/0488 A61B5/0492 A61M31/00 A61M37/00 A61M5/142 A61N1/05 A61N1/08 A61N1/18 A61N1/32 A61N1/36 A61N1/362 A61N1/37 A61N1/372 A61N1/375 A61N1/378 A61N1/40 H01F27/42 H01F37/00 H01F38/00 H02J50/10 H02J50/12 H02J50/20 H02J50/23 H02J50/27 H02J50/40 H02J50/50 H02J50/80 H02J50/90 H02J7/02 (Advanced/Invention); A61B18/00 (Advanced/Non-invention)
CPC: A61B5/076 A61B18/14 A61B18/18 A61N1/37229 A61N1/3787 H02J50/23 A61B5/686 A61B2018/00577 A61B2018/1838 A61B2560/0219 A61M31/002 A61N1/3601 A61N1/3605 H02J50/12 H02J50/20 A61B5/00 A61N1/0551 A61N1/0558 A61N1/36062 A61N1/36185 A61N1/37252 A61N1/37518 A61N1/3756 H02J7/025 H02J50/10 H02J50/40 H02J50/80 H02J50/90 A61N1/37223 A61N1/37247
US: 1/1 307/104 607/2 607/60 607/61



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: NEUSPERA MEDICAL INC

Assignee(s): (std): ARMSTRONG RANDOLPH KERRY ; FAYRAM TIMOTHY A ; HOLINSKI BRAD ; JUNCO ELIA ; MORRIS MILTON M ; YEH ALEXANDER JUESHYAN ; NEUSPERA MEDICAL INC ; SHAW GARY ; YEH ALEXANDER

Inventor(s): (std): JUNCO ELIA ; ARMSTRONG RANDOLPH KERRY ; SHAW GARY ; FAYRAM TIMOTHY A ; YEH ALEXANDER ; MILTON M MORRIS ; ALEXANDER JUESHYAN YEH ; HOLINSKI BRAD ; MORRIS MILTON M ; YEH ALEXANDER JUESHYAN ; MILTON MORRIS M

Inventor(s): MILTON MMORRIS

Agent(s): FB RICE PTY LTD; GOWLING WLG CANADA LLP; CREASE DEVANAND JOHN; TACHIBANA KENJI; SCHWEGMAN LUNDBERG AND WOESSNER PA; MADDEN ROBERT B ET AL; PERDOK MONIQUE M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 65498112 (US2017113200A)

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Title: ENCAPSULATION

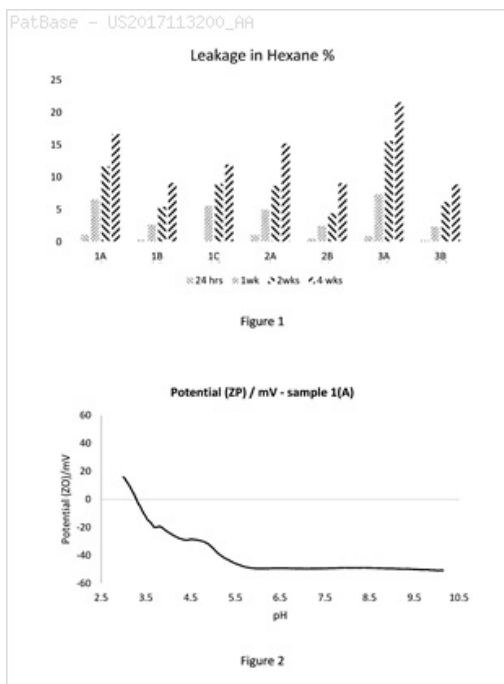
Abstract: An improved process of making a benefit agent delivery particle and an improved microcapsule made by such process are disclosed. The process comprises the steps of providing a first composition of water phase 1, water phase 2 and water phase 3. Water phase 1 comprises water and an initiator; water phase 2 comprises water, a water-soluble or dispersible amine(meth)acrylate or hydroxyl(meth)acrylate and a multifunctional (meth)acrylate. Water phase 3 comprises water, and carboxyalkyl(meth)acrylate and a base or quarternary ammonium acrylate. The first two water phases are combined to prereact the hydroxy- or amine(meth)acrylate and the multifunctional (meth)acrylate to form a multifunctional hydroxyl-amine(meth)acrylate pre-polymer. The pre-polymer is combined with water phase 3; then an emulsion is formed by emulsifying under high shear agitation a second composition into said first composition; said second composition comprising an oil phase comprising an isocyanate and a benefit agent core material thereby forming a wall surrounding the benefit agent core material.

Classifications:

International (IPC 8-9): A01N25/28 A61K8/11 A61K8/81 A61K8/87 A61K8/88 A61K9/50 A61L15/22 A61L15/46 A61L15/60 A61Q13/00 A61Q15/00 A61Q17/04 A61Q19/10 A61Q5/02 B01J13/02 B01J13/14 B01J13/16 B01J13/18 C08F2/22 C08F2/32 C08F220/06 C08G18/62 C08J9/32 C09B67/02 C10M171/06 C11D17/00 C11D3/50 F28D20/02 (Advanced/Invention)

CPC: A01N25/28 A61K8/11 A61K8/8152 A61K9/5026 A61K9/5031 A61K9/5089 A61K2800/412 A61Q13/00 A61Q15/00 A61Q17/04 B01J13/14 B01J13/18 C10M171/06 C10N2250/16 C11D3/505 A61K8/87 A61K8/88 A61K9/50 A61L15/225 A61L15/46 A61L15/60 A61Q5/02 A61Q19/10 B01J13/16 C09B67/0097 C10N2220/08 C11D17/0039 F28D20/023

US: 1/1 424/401 424/451



Family:

Publication number	Publication date	Application number	Application date
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EP3390483 A1	20181024	EP20160860652	20161026
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US2018235893 AA	20180823	US20180960654	20180424
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Priority:

US20150246805P 20151027

US20160334540 20161026

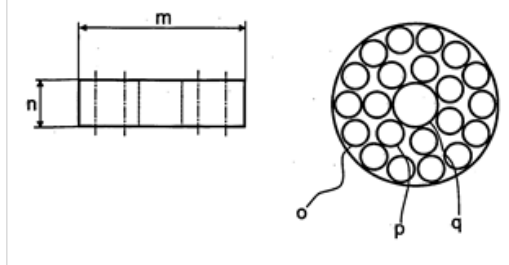
WO2016US58771 20161026

Probable Assignee: ENCAPSYS LLC**Assignee(s):** (std): ENCAPSYS LLC ; PROCTER AND GAMBLE**Assignee(s):** IPS STRUCTURAL ADHESIVES INC ; WATERTITE PRODUCTS INC ; WELD ON ADHESIVES INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS ; ENCAPSYSLLC ; HOBART KATIE ANN ; IPS ADHESIVES LLC ; IPS CORP ; ZHANG HANWEI ; SCHWANTES TODD ARLIN ; WILLIAMSON DIANE JEAN ; PROCTER AND GAMBLE CO**Inventor(s):** (std): WILLIAMSON DIANE JEAN ; ZHANG HANWEI ; SCHWANTES TODD ARLIN ; HOBART KATIE ANN**Agent(s):** SMART AND BIGGAR; MCGUIRE GILLIAN MARGARET; PEET JILLIAN WENDY; BENJAMIN; MIELIULIS BENJAMIN**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 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**7) Family number: 33191147** (US2006177647A)

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Title: ABSORBENT STRUCTURE WITH IMPROVED WATER-SWELLABLE MATERIAL**Abstract:** This invention relates to improved absorbent structures containing improved water-swellaable material that can significantly withstand deformation by an external pressure, thus showing improved liquid handling properties. In particular, this invention relates to absorbent structures comprising water-swellaable material with an improved absorbent capacity/permeability balance. The water-swellaable material is typically in the form of particles, which comprise a core of water-swellaable polymer(s) and a shell of said elastomeric polymer(s), preferably selected polyetherpolyurethanes, whereby the water-swellaable material is such that it can withstand deformation due to external pressure. The invention also relates to diapers, adult incontinence articles and sanitary napkins comprising said absorbent structure of the invention.**Classifications:****International (IPC 8-9):** A61F13/15 A61F13/49 A61F13/53 A61L15/00 A61L15/12 A61L15/16 A61L15/26 A61L15/60 B01J20/00 B01J20/26 B01J20/28 B05D1/02 B05D3/02 B32B5/14 B32B5/16 C08G18/08 C08G18/10 C08G18/48 C08J3/12 C08L101/14 C08L75/08 C09D175/04 D04H1/00 (Advanced/Invention); A61F5/44 (Advanced/Non-invention); A61F13/15 A61L15/00 A61L15/16 B01J20/00 B01J20/22 B01J20/28 B05D1/02 B05D3/02 C08J3/12 C08L101/00 C08L75/00 (Core/Invention); A61F5/44 (Core/Non-invention)**CPC:** Y10T428/254 Y10T428/2991 Y10T428/2998 A61L15/50 A61L15/26 B32B5/14 B32B5/16 C08G18/0823 C08G18/10 C08G18/4833 C09D175/04 Y10T442/60 Y10T442/699 A61L15/60 Y10T428/25**European:** A61L15/26 A61L15/50 A61L15/60 B32B5/14 B32B5/16 C08G18/08B6C C08G18/10 C08G18/48F C09D175/04**US:** 427/2.31 427/2.310P 427/2.310S 428/323 428/323P 428/323S 428/327 428/403 428/407 442/327 442/417 442/417P 523/111 523/111S 604/358 604/358S 604/367 604/367S 604/368 604/368P

PatBase - US2006177647_RA

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): AUTRAN JEAN PHILIPPE M ; AUTRAN JEAN PHILIPPE MARIE ; BRUHNS STEFAN ; BRUHNS STEFAN DR ; DANIEL THOMAS ; DANIEL THOMAS DR ; FOSSUM RENAE D ; GOLDMAN STEPHEN A ; EHRNSPERGER BRUNO J ; ELLIOT MARK ; MADSEN JAMES S ; FOSSUM RENAE DIANNA ; GOLDMAN STEPHEN ALLEN ; EHRNSPERGER BRUNO JOHANNES ; ELLIOT MARK BSC ; HABERLE KARL ; ELLIOTT MARK ; HAEBERLE KARL ; SCHMIDT MATTIAS ; MEYER AXEL ; RIEGEL ULRICH ; MADSEN JAMES SCOTT ; PROCTER AND GAMBLE

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY ; PROCTOR AND GAMBLE CO ; PROCTOR AND GAMBLE CO CINCINNATI ; PROCTOR AND GAMBLE CO

Inventor(s): (std): AUTRAN JEAN PHILIPPE ; FOSSUM RENAE ; MARK ELLIOT ; STEFAN BRUHNS ; ULRICH RIEGEL ; AXEL MEYER ; MATTIAS SCHMIDT ; THOMAS DANIEL ; AUTRAN JEAN PHILIPPE M ; HAEBERLE KARL ; ELLIOT MARK BSC ; BRUHNS STEFAN DR ; DANIEL THOMAS DR ; EHRNSPERGER BRUNO JOHANNES ; GOLDMAN STEPHEN ALLEN ; FOSSUM RENAE DIANNA ; ELLIOT MARK ; BRUHNS STEFAN ; DANIEL THOMAS ; RIEGEL ULRICH ; EHRNSPERGER BRUNO J ; GOLDMAN STEPHEN A ; FOSSUM RENAE D ; MEYER AXEL ; SCHMIDT MATTIAS ; KARL HAEBERLE ; MARK ELLIOTT ; AUTRAN JEAN PHILIPPE MARIE ; ELLIOTT MARK ; HABERLE KARL ; MADSEN JAMES SCOTT ; MADSEN JAMES S

Inventor(s): MARK BSC ELLIOT ; JAMES SCOTT MADSEN ; JEAN PHILIPPE MARIE AUTRAN ; RENAE DIANNA FOSSUM ; KARL HAEBERLE ; EHRNSPERGER BRUNO JOHANNES MASON ; GOLDMAN STEPHEN ALLEN CINCINNATI ; AUTRAN JEAN PHILIPPE MARIE WYOMING ; GOLDMAN STEPHEN ; EHRNSPERGER BRUNO ; MADSEN JAMES SCOTT COTTAGE GROVE ; FOSSUM RENAE DIANNA MIDDLETOWN ; MADSEN JAMES

Agent(s): DIMOCK STRATTON LLP ; WILSON LUE LLP ; Heide Ute ; HEIDE UTE ; MCGREGOR JUDIT ESTER ; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION ; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION ; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION WEST BLDG ; JOHN G ; RICHARD L ; KATHLEEN Y

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

8) Family number: 68878283 (US2018072445A)

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Title: TRACK SYSTEM FOR CREATING FINISHED PRODUCTS

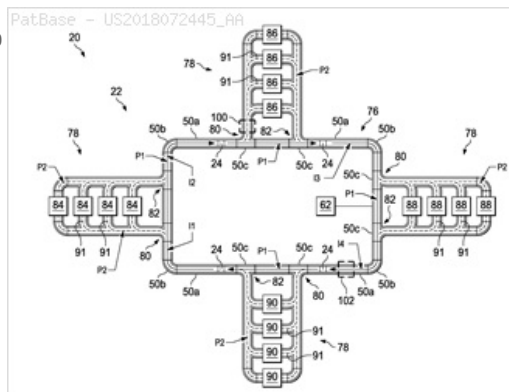
Abstract: A track system includes a primary transport portion and a secondary transport portion along which a plurality of vehicles can be propelled. Each secondary transport portion includes a unit operation station for performing a transformation on a container or the contents therein.

Classifications:

International (IPC 8-9): B23P21/00 B65B3/04 B65B43/52 B65B57/00 B65B59/00 B65B65/00 B65B7/00 B65G23/23 B65G35/06 B65G47/64 B65G54/02 G01G11/00 G01G11/04 G01G19/03 G01G23/16 G05B19/418 G06Q30/06 (Advanced/Invention)

CPC: B65G23/23 B65G35/06 B65G47/642 B65G54/02 B65G2201/0235 G01G19/03 G06Q30/06 G06Q30/0635 G06Q30/0621 B65B3/04 B65B7/00 B65B43/52 B65B59/00 B65B65/006 G01G11/00 G05B19/41865 G05B2219/42337

US: 1/1 141/129 177/54 705/26.5



Family:

Publication number	Publication date	Application number	Application date
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WO18049106 A1	20180315	WO2017US50601	20170908
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Priority:

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): MOORE NATHAN E ; ROYCE DANIEL RICHARD ; ORNDORFF JASON MATTHEW ; LYMAN CHRISTOPHER ROBERT ; GRANITZ MICHAEL ; BURKHARD RYAN ANDREW ; CACCIATORE JUSTIN THOMAS ; CAPECI SCOTT WILLIAM ; FIKES ELIZABETH MARIE ; PROCTER AND GAMBLE CO

Inventor(s): (std): ROYCE DANIEL RICHARD ; LYMAN CHRISTOPHER ROBERT ; ORNDORFF JASON MATTHEW ; FIKES ELIZABETH MARIE ; MOORE NATHAN E ; BURKHARD RYAN ANDREW ; GRANITZ MICHAEL ; CACCIATORE JUSTIN THOMAS ; JASON MATTHEW ORNDORFF ; CHRISTOPHER ROBERT LYMAN ; RYAN ANDREW BURKHARD ; NATHAN E MOORE ; ELIZABETH MARIE FIKES ; DANIEL RICHARD ROYCE ; MICHAEL GRANITZ ; CAPECI SCOTT WILLIAM

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; KREBS JAY A ET AL; KREBS JAY 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 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 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

9) Family number: 44817343 (US2010081352A)

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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.

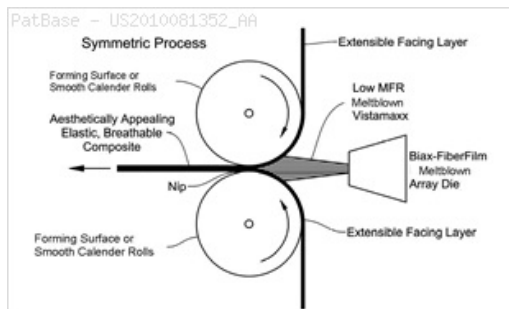
Classifications:

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 B29C41/26 B29C41/32 B29C47/00 B29C47/06 B29C47/12 B29C47/78 B29C47/88 B29C49/00 B29C51/22 B29C65/00 B29C65/02 B29C65/20 B29C65/40 B29C65/48 B29C70/40 B32B23/10 B32B25/10 B32B25/14 B32B27/02 B32B27/08 B32B27/12 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B27/40 B32B3/02 B32B3/10 B32B3/28 B32B3/30 B32B37/00 B32B37/02 B32B37/04 B32B37/06 B32B37/14 B32B37/15 B32B38/00 B32B5/02 B32B5/04 B32B5/06 B32B5/08 B32B5/12 B32B5/14 B32B5/22 B32B5/24 B32B5/26 B32B7/02 B32B7/04 B32B7/05 B32B7/12 B65C9/25 C08F11/00 C08J5/00 C08L23/04 C08L23/08 C08L23/10 C08L23/14 C08L23/16 D01D5/08 D01D5/098 D01F6/06 D01F6/30 D01F6/46 D03D9/00 D04H1/42 D04H1/4291 D04H1/4374 D04H1/4382 D04H1/46 D04H1/498 D04H1/54 D04H1/544 D04H1/559 D04H1/56 D04H1/70 D04H13/00 D04H3/007 D04H3/02 D04H3/03 D04H3/05 D04H3/11 D04H3/12 D04H3/14 D04H3/153 D04H3/16 D04H5/06 D06M10/00 D06M17/00 D06N1/00 (Advanced/Invention);

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

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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 442/328S 442/329 442/381 442/381S 442/382 442/387 442/389 442/400 442/401 442/415 442/63 526/348 526/348P 604/358 604/358P 604/370 604/372 604/383 604/385.01 604/385.010P 604/385.16 604/393

Family:

Publication number	Publication date	Application number	Application date
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US20190373942	20190403				

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Inventor(s): MICHAEL GLENN WILLIAMS ; NARAYANASWAMI RAJA DHARMARAJAN

Agent(s): UEXKUELL AND STOLBERG; UEXKUELL AND STOLBERG PARTNERSCHAFT VON PATENT U RECHTSANWALTEN MBB; GERSTBERGER GISELA; WALL LEYTHEM; MARESCHAL ANNE; EXXONMOBIL CHEMICAL EUROPE INC; Wall Leythem; DE ELZABURU ALBERTO; YAMASAKI KAZUO; HAKODA ATSUSHI; ICHIKAWA SATSUKI; KUMAKURA YOSHIO; ASAI KENJI; HATTORI HIRONOBU; CANAN OEZTUERKER; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; EXXONMOBIL CHEMICAL COMPANY,LAW TECHNOLOGY; EXXONMOBIL CHEMICAL CO LAW TECHNOLOGY; KEVIN M; PRIYA G; FAULKNER KEVIN M; TIMMINS STEPHEN ET AL; LIN HSIN ET AL; FAULKNER KEVIN M 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

10) Family number: 61996392 (US2016089317A) © PatBase

Title: ANTIPERSPIRANT AND DEODORANT COMPOSITIONS COMPRISING MALODOR REDUCTION COMPOSITIONS

Abstract: The present invention relates to antiperspirant and deodorant compositions comprising malodor reduction compositions and methods of making and using such antiperspirant and deodorant compositions. Such antiperspirant and deodorant compositions comprising the malodor control technologies disclosed herein provide malodor control without leaving an undesirable scent and when perfume is used to scent such compositions, such scent is not unduely altered by the malodor control technology.

Classifications:

International (IPC 8-9): A23L27/00 A61F9/01 A61K8/11 A61K8/30 A61K8/31 A61K8/33 A61K8/34 A61K8/35 A61K8/36 A61K8/368 A61K8/37 A61K8/46 A61K8/49 A61K8/58 A61K8/73 A61K8/81 A61L A61L101/34 A61L101/36 A61L101/44 A61L15/20 A61L15/28 A61L15/46 A61L2/18 A61L9/01 A61L9/012 A61L9/03 A61L9/04 A61L9/12 A61L9/14 A61Q13/00 A61Q15/00 A61Q19/00 A61Q19/10 A61Q5/02 B01J20/24 C08K5/00 C11B C11B9/00 C11D C11D1/62 C11D11/00 C11D17/00 C11D17/04 C11D17/06 C11D3/00 C11D3/16 C11D3/18 C11D3/20 C11D3/22 C11D3/26 C11D3/30 C11D3/43 C11D3/48 C11D3/50 C11D7/22 D06B1/02 D06M11/79 D06M13/00 D06M13/463 D06M15/11 D06M23/12 G06F17/10 G06F17/11 G06F17/50 G06F19/00 G06Q99/00 G16C10/00 G16C20/40 (Advanced/Invention); A61L101/34 A61L101/36 A61L101/44 C11D3/50 (Advanced/Non-invention); A61Q19/00 C11B9/00 (Core/Invention)

CPC: G06F19/701 G06F19/705 A61L9/14 A61L2209/133 A61L2209/134 A61K8/31 A61K8/33 A61K8/34 A61K8/342 A61K8/35 A61K8/36 A61K8/361 A61K8/368 A61K8/37 A61K8/4926 A61K8/4973 A61K8/498 A61K8/58 A61K2800/5922 A61L2/18 A61L9/01 A61L9/012 A61L9/03 A61L9/122 A61L9/127 A61Q5/02 A61Q13/00 A61Q15/00 A61Q19/00 A61Q19/10 C08K5/0008 C11B9/0053 C11D3/001 C11D3/0068 C11D3/184 C11D3/2034 C11D3/2068 C11D3/2072 C11D3/2079 C11D3/2093 C11D3/2096 C11D3/222 C11D3/30 C11D3/43 C11D3/505 C11D11/0017 C11D17/042 C11D17/06 G06Q99/00 A61K8/11 A61K8/494 A61K8/4966 A61K8/731 A61K8/8152 A61K2800/56 A61K2800/592 A61L15/20 A61L15/28 A61L15/46 A61L2300/62 B01J20/24 C11B9/0015 C11B9/0019 C11B9/0034 C11B9/0038 C11B9/0042 C11B9/0049 C11B9/0061 C11B9/0076 C11B9/008 C11B9/0092 G16C10/00 G16C20/40 A61L2209/21 C11B9/003 C11D17/0043 C11D17/047 D06B1/02 G06F17/10 G06F17/11 G06F30/23 G06F17/5018

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER ; P AND G CORP

Assignee(s): STANTON DAVID THOMAS ; MADHAV PRAKASH J ; SMETS JOHAN ; READNOUR CHRISTINE MARIE ; CETTI JONATHAN ROBERT ; FRANKENBACH GAYLE MARIE ; HOLLINGSHEAD JUDITH ANN ; HORENZIAK STEVEN ANTHONY ; LIU ZAIYOU ; PROCTER AND GAMBLE CO

Inventor(s): (std): CETTI JONATHAN ROBERT ; FRANKENBACH GAYLE MARIE ; HOLLINGSHEAD JUDITH ANN ; HORENZIAK STEVEN ANTHONY ; MADHAV PRAKASH J ; STANTON DAVID THOMAS ; READNOUR CHRISTINE MARIE ; LIU ZAIYOU ; SMETS JOHAN ; DUVAL DEAN LARRY ; VEGA VICTOR NICHOLAS ; SCAVONE TIMOTHY ALAN ; CETI JONATHAN ROBERT ; SMETS JOHAN NMN ; JUDITH ANN HOLLINGSHEAD ; PRAKASH J MADHAV ; JONATHAN ROBERT CETTI ; ZAIYOU LIU ; STEVEN ANTHONY HORENZIAK ; GAYLE MARIE FRANKENBACH ; CHRISTINE MARIE READNOUR ; DAVID THOMAS STANTON

Agent(s): KIRBY EADES GALE BAKER; TORYS LLP; MBM INTELLECTUAL PROPERTY LAW LLP; PEET JILLIAN WENDY; HOYNG ROKH MONEGIER LLP; SIDDIQUEE SANAL KABIR; SAUVAITRE THIBAUT BRUNO;

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

11) Family number: 51239401 (US2012143295A)

© PatBase

Title: MENSTRUAL RELIEF BAND

Abstract: A band that employs low voltage resistance wire (11) to provide heat for the purpose of relieving the pain and discomfort caused by menstrual cramps. It is wrapped around the hip/lower abdominal area of the body and velcro (1, 2) is used to hold it in place. In addition to the velcro, elastic materials (7) enable the abdominal heat band to have an adjustable size so that it is able to fit both large and small individuals. Elastic also helps provide a snug fit allowing the user to effectively conceal the band beneath their clothing if desired. A remote control (3), which also houses the battery, controls the power and intensity of the heat. The remote is detachable from the band which allows the band to be washed without risk of getting the remote control wet.

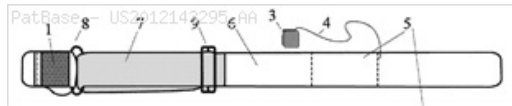
Classifications:

International (IPC 8-9): A61F7/08 (Advanced/Invention)

CPC: A61F7/007 A61F2007/0023 A61F2007/0071 A61F2007/0078 A61F2007/0094

European: A61F7/00E K61F7/00A3F K61F7/00E1 K61F7/00E3B K61F7/00R

US: 607/112 607/112P



Family:

Publication number	Publication date	Application number	Application date
US2012143295 AA	20120607	US20100959366	20101203

Priority:

US20100959366 20101203

Probable Assignee: MOORE BRAD LEE ST JOHN

Assignee(s): (std): MOORE BRAD LEE ST JOHN

Inventor(s): (std): MOORE BRAD LEE ST JOHN

12) Family number: 59353416 (US2016294024A)

© PatBase

Title: DEVICES AND METHOD FOR SMELTERLESS RECYCLING OF LEAD ACID BATTERIES

Abstract: Lead from lead acid battery scrap is recovered in two separate production streams as clean grid lead and as high-purity lead without smelting. In preferred aspects, lead recovery is performed in a continuous process that uses an aqueous electroprocessing solvent and electro-refining and spent electroprocessing solvent can be recycled to the recovery process.

Classifications:

International (IPC 8-9): C22B13/00 C22B3/16 C22B3/44 C22B7/00 C25C C25C1/18 C25C5/02 C25C7/00 C25C7/02 C25C7/06

C25C7/08 H01M H01M10/06 H01M10/54

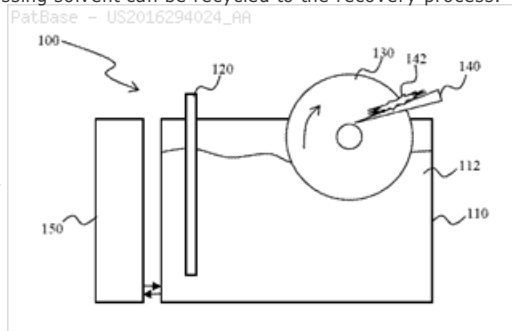
H01M4/14 (Advanced/Invention);

C25C1/00 C25C7/00 H01M10/00 H01M4/00 (Core/Invention)

International (IPC 1-7): H01M10/06 H01M10/54

CPC: Y02E60/126 C25C1/18 C25C5/02 C25C7/00 C25C7/007 C25C7/08 H01M4/14 H01M10/06 H01M10/54 Y02P10/212 Y02W30/84 C25C7/005

US: 1/1 205/771 429/49



Family:

Publication number	Publication date	Application number	Application date
AP201609279 A0	20160630	AP20160009279	20141118
AU2014353227 AA	20160602	AU20140353227	20141118
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AU2015350562 AA	20170629	AU20150350562	20150513
AU2015350562 BB	20180726	AU20150350562	20150513
AU2017213449 AA	20170824	AU20170213449	20170808
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BR112017010505 A2	20171226	BR20171110505	20150513
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CA2930945 C	20180320	CA20142930945	20141118
CA2968064 AA	20170516	CA20152968064	20150513
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EA032371 B1	20190531	EA20160091047	20141118
EA201691047 A1	20170228	EA20160091047	20141118
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EP3072180 A1	20160928	EP20140863903	20141118
EP3072180 A4	20171011	EP20140863903	20141118
EP3072180 B1	20190102	EP20140863903	20141118
EP3221918 A1	20170927	EP20150861829	20150513
EP3221918 A4	20181205	EP20150861829	20150513
EP3483305 A1	20190515	EP20180209265	20141118
ES2718605 T3	20190703	ES20140863903T	20141118
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IN318321 B	20190823	IN201627020496	20160615
JP2017504930 T2	20170209	JP20160533660T	20141118
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KR101739414 B1	20170524	KR20167016496	20141118
KR101882932 B1	20180727	KR20177016853	20150513
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KR20160077227 A	20160701	KR20167016496	20141118
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KR20180086520 A	20180731	KR20187021210	20150513
LT3072180 T	20190510	LT20140863903T	20141118
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PE08352017 A1	20170704	PE20170000869	20150513
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PE20161103 A1	20161119	PE20160000649	20141118
PE20170835 A1	20170704	PE20170000869	20150513
PL3072180 T3	20190930	PL20140863903T	20141118
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RS59032 B1	20190830	RS20190000403	20141118
SI3072180 T1	20190531	SI20140031149T	20141118
TR201904923 T4	20190521	TR20190004923T	20141118
UA118037 C2	20181112	UA20160006667	20141118
US2016294024 AA	20161006	US20140037318	20141118
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WO15077227 A1	20150528	WO2014US66142	20141118
WO15077227 A4	20150716	WO2014US66142	20141118
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ZA201604083 A	20171025	ZA20160004083	20160615
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Priority:

US20130905941P	20131119	AU20140353227	20141118	US20140037318	20141118
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US20170527749	20170518	AU20170213449	20170808	US20170810808	20171113
US20190407914	20190509				

Probable Assignee: AQUA METALS INC

Assignee(s): (std): AQUA METALS INC

Assignee(s): AQUA METALS INC OAKLAND ; CLARKE ROBERT LEWIS ; CLARKE STEPHEN R ; KING MICHAEL JOHN ; HURWITZ MICHAEL DAVID ; MOULD SELWYN JOHN ; DOUGHERTY BRIAN

Inventor(s): (std): KING MICHAEL JOHN ; CLARKE ROBERT LEWIS ; HURWITZ MICHAEL DAVID ; MOULD SELWYN JOHN ; CLARKE STEPHEN R ; DOUGHERTY BRIAN ; MOULD SELWYN ; BRIAN DOUGHERTY ; MICHAEL DAVID HURWITZ ; MICHAEL JOHN KING ; ROBERT LEWIS CLARKE ; STEPHEN R CLARKE ; SELWYN JOHN MOULD

Inventor(s): MICHAEL DAVID WITZ ; CLARKE STEPHEN R ORINDA ; CLARKE ROBERT LEWIS ORINDA ; HURWITZ MICHAEL DAVID ALAMEDA ; KING MICHAEL JOHN OAKLAND ; MOULD SELWYN JOHN LAFAYETTE ; STEPHEN R

Agent(s): SPRUSON AND FERGUSON; SHAPIRO COHEN LLP; AVENTUM IP LAW LLP; VERAMARK Y O FERNANDO FERNANDEZ TELLERIA SA; FERNANDO FERNANDEZ TELLERIA Y O VERAMARK SA; NOVAGRAAF BREVETS; KADOR AND PARTNER; KADOR AND PARTNER PARTG MBB; CAMPELLO REYES; ADOLF MARTUA PANGGABEAN; MAROLITA SETIATI; AYLIN SENER; UMBERG ZIPSER LLP; FESSENMAIER MARTIN 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: MULTIFUNCTION-ADAPTABLE, MULTICOMPONENT DEVICES

Abstract: Devices with modular components have interchangeable parts that create and convert functional items to the same items having different features or to different items. Lamps, urns, planters, pots, containers and pedestals have modular, quick take-apart capabilities and may be reassembled with similar parts and/or additional or different parts. Multifunctional adaptability is provided, and these devices may include diverse electrical and electronic functions, including entertainment, communications, sensing, security, safety, environmental and other functions. Multiple electronic features could include receivers, transmitters, antennas, alarms, motion detectors, timers, device control and scent releasing functions. LAN, WAN, Internet, and other wired and wireless capabilities may be integrated into these devices.

Classifications:

International (IPC 8-9): A01G9/02 B01D46/00 B65D6/00 F21L4/00 F21S2/00 F21S6/00 F21S8/00 F21V15/01 F21V19/02 F21V33/00 G06F15/16 G06F16/00 G06F16/435 G06F16/957 G06F17/00 G06F17/30 G06F7/00 G06Q50/00 H04M11/04 H04M3/42 H05K5/00 (Advanced/Invention); F21V33/00 G06F15/16 G06F17/00 G06F17/30 G06F7/00 H05K5/00 (Core/Invention)

International (IPC 1-7): B01D46/00 F21S2/00

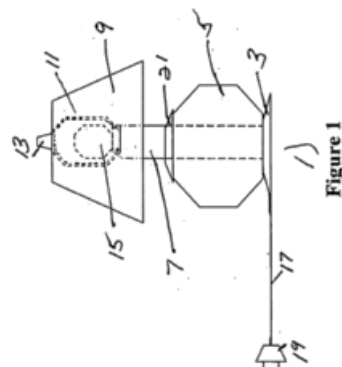
CPC: A47G7/06 G06F16/437 G06F16/9577 H04M3/42229 H05B47/19 A01G9/02 A62B99/00 F21S6/002 F21S6/005 F21V33/00 F21W2121/00 G06F19/3462 G06Q50/22 G08B7/066 G08B17/00 G08B21/14 G08B21/24 G08B25/009 G08B25/012 G08B25/10 H04W12/00512 Y02W30/829

European: A01G9/02 A47G7/06 A62B99/00 F21S6/00D F21S6/00S F21V33/00 G06F17/30E2F2 G06F17/30W9V G06F19/34L1 G06Q50/22 G08B17/00 G08B21/14 G08B21/24 G08B25/00S G08B25/01B G08B25/10 G08B7/06P H05B37/02B6R R21W121/00

US: 1/1 220/4.01 361/730 362/154 362/190 362/227 362/253 362/362 362/368 362/382 362/418 455/404.1 707/10 707/104.1 707/999.01 707/999.107 707/E17.032 707/E17.121 709/203 96/417

PatBase - US2005185398_AA

Patent Application Publication Aug. 25, 2005 Sheet 1 of 50 US 2005/0185398 A1



Family:

Publication number	Publication date	Application number	Application date
US2005185398 AA	20050825	US20050062039	20050218
US2005188853 AA	20050901	US20050101066	20050407
US2006123053 AA	20060608	US20050291384	20051201
US2006154642 AA	20060713	US20050218948	20050902
US2007230197 AA	20071004	US20070801016	20070508
US2007268687 AA	20071122	US20070801106	20070508
US2009019061 AA	20090115	US20080179547	20080724
US2009073694 AA	20090319	US20080283221	20080910
US2020034401 AA	20200130	US20190554204	20190828
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WO07027660 A2	20070308	WO2006US33650	20060829
WO07027660 A3	20071115	WO2006US33650	20060829
WO07064443 A2	20070607	WO2006US43040	20061103
WO07064443 A3	20090423	WO2006US43040	20061103

Priority:

US20040545939P	20040220	US20040560908P	20040410	US20040607961P	20040908
US20040632643P	20041202	US20050062039	20050218	US20050101066	20050407
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US20070801106	20070508	US20070951539P	20070724	US20080179547	20080724
US20080283221	20080910	US20190554204	20190828		

Probable Assignee: INSIGNIO TECHNOLOGIES INC

Assignee(s): (std): GLYNNTech INC ; INSIGNIO TECH INC ; SCANNELL ROBERT F JR ; INSIGNIO TECHNOLOGIES INC ; SCANNELL ROBERT F ; SCANNELL JR ROBERT F

Assignee(s): SCANNELL ROBERT FJR

Inventor(s): (std): SCANNELL ROBERT F ; SCANNELL JR ROBERT F ; SCANNELL ROBERT F JR

Inventor(s): SCANNELL JR ; SCANNELL ROBERT ; SCANNELL ROBERT FJR

Agent(s): KENNETH P GLYNN ESQ; KENNETH P GLYNN; FISH AND RICHARDSON PC; DEIRDRA M MEAGHER; YOUNG BASILE HANLON AND MACFARLANE PC; GLYNN KENNETH P

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

Title: FLEXIBLE CONTAINERS AND METHODS OF MAKING THE SAME

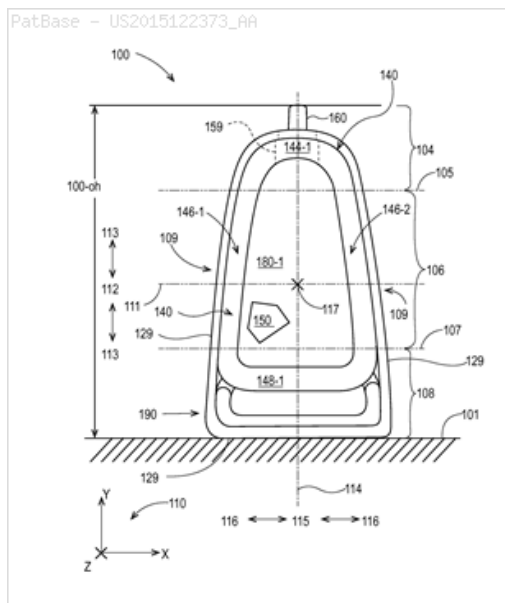
Abstract: A method of filling a product volume of a flexible container that includes a product volume and a structural support volume that at least partially extends into the product volume can include filling the product volume with product and applying an external force to the product volume and sealing the product volume to reduce a product receiving volume of the product volume.

Classifications:

International (IPC 8-9): B65B B65B1/02 B65B1/04 B65B3/02 B65B3/04 B65B3/30 B65B31/02 B65B31/04 B65B5/02 B65B51/10 B65B61/00 B65B65/02 B65D B65D30/10 B65D30/16 B65D33/02 B65D75/00 B65D75/20 B65D75/52 B65D75/54 B65D75/56 B65D75/58 B65D81/03 (Advanced/Invention)

CPC: B65B3/04 B65B3/30 B65B1/04 B65B31/024 B65B51/10 B65B61/00 B65B65/02 B65D75/00 B65B1/02 B65B3/02 B65B5/02 B65B31/04 B65D31/16 B65D33/02 B65D75/008 B65D75/20 B65D75/525 B65D75/54 B65D75/566 B65D75/5877 B65D75/5883 B65D81/03 B65D2205/02 B31B70/008 B31B2219/23

US: 141/12



Family:

Publication number	Publication date	Application number	Application date
BR112016010209 A2	20170808	BR20161110209	20141106
CA2926528 AA	20160404	CA20142926528	20141106
CN105705432 A	20160622	CN201480061106	20141106
DE602014018884 D1	20180125	DE201460018884T	20141106
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ID201705699 A	20170602	ID2016P0002505	20141106
IN201617011736 A	20160819	IN201617011736	20160402
JP2016535707 A2	20161117	JP20160552477	20141106
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KR20160067161 A	20160613	KR20167011784	20141106
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PH2016500836 A	20160613	PH20160500836	20160505
RU2016112352 A	20171207	RU20160112352	20141106
US2015122373 AA	20150507	US20140534213	20141106
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ZA201602591 A	20171220	ZA20160002591	20160415

Priority:

US20130900805P 20131106 EP20140802558 20141106 US20140534213 20141106
WO2014US64209 20141106

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; YOU JUN ; STANLEY SCOTT KENDYL ; PROCTER AND GAMBLE CO CINCINNATI ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; LESTER JOSEPH CRAIG

Inventor(s): (std): LESTER JOSEPH CRAIG ; ISHIHARA TADAYOSHI ; JUN YOU ; JOSEPH CRAIG LESTER ; KENDYL STANLEY SCOTT ; JACOB CLARE BENJAMIN ; STANLEY SCOTT KENDYL ; YOU JUN ; YOUJUN ; TADAYOSHI ISHIHARA ; MARC RICHARD BOURGEOIS ; SCOTT KENDYL STANLEY ; RICHARD BOURGEOIS MARC ; BENJAMIN JACOB CLARE ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; CRAIG LESTER JOSEPH

Inventor(s): BOURGEOIS MARC RICHARD CINCINNATI ; CLARE BENJAMIN JACOB CINCINNATI ; LESTER JOSEPH CRAIG CINCINNATI ; YOU JUN CINCINNATI ; STANLEY SCOTT KENDYL CINCINNATI ; JOSEPH CRAIGLESTER ; ISHIHARA TADAYOSHI CINCINNATI

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISCH GAUTIER; MAULITTA PRAMULASARI; TANI AND ABE PC; JEFFREY V; CHARLES R; GUFFEY TIMOTHY B

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

15) Family number: 68162519 (US2018008837A)

© PatBase

Title: LIGHT THERAPY DELIVERY DEVICES AND METHODS FOR THE FEMALE GENITALIA AND AREAS PROXIMAL THERETO

Abstract: The present invention relates to light therapy devices and related methods to treat the female genitalia and areas proximal thereto, including the vaginal cavity and vulvar regions in cisgender females or transgender females who have undergone sex reassignment, in particular for post-surgical indications, vaginal rejuvenation, or other medical conditions suitable for treatment with light therapy. The devices and methods are configured to provide a therapeutic amount of low

level light therapy to a patient in need of treatment thereof.

Classifications:

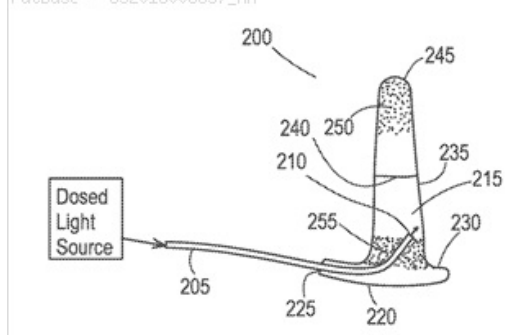
International (IPC 8-9): A61N5/06 A61N5/067 (Advanced/Invention); A61N5/067 (Advanced/Non-invention)

International (IPC 1-7): A61N5/067

CPC: A61N2005/067 A61N2005/0651 A61N2005/0659 A61N5/06 A61N5/0616

US: 1/1 607/89

PatBase - US2018008837_AA



Family:

Publication number	Publication date	Application number	Application date
AU2017301811 AA	20190321	AU20170301811	20170726
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CA3031991 AA	20190124	CA20173031991	20170726
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EP3490671 A1	20190605	EP20170749054	20170726
US2018008837 AA	20180111	US20170645467	20170710
US2019083809 AA	20190321	US20180110688	20180823
WO18022775 A1	20180201	WO2017US43988	20170726

Priority:

US20160493613P 20160711	US20160494065P 20160727	US20160496714P 20161027
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US20170645467 20170710	WO2017US43988 20170726	US20180110688 20180823

Probable Assignee: Z2020 LLC

Assignee(s): (std): Z2020 LLC ; ZHANG JACK K

Inventor(s): (std): ZHANG JACK K ; JACK K ZHANG

Agent(s): WRAYS PTY LTD; ROBIC; MURGITROYD AND CO; THOMAS HORSTEMEYER LLP

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 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

16) Family number: 28315568 (US2002150678A)

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Title: METHOD OF APPLYING NANOPARTICLES

Abstract: Coating compositions, methods and articles of manufacture comprising a nanoparticle system employing same to impart surface modifying benefits for all types of soft surfaces, and in some cases, hard surfaces, are disclosed. In some embodiments, dispersment of nanoparticles in a suitable carrier medium allows for the creation of coating compositions, methods and articles of manufacture that create multi-use benefits to the modified surfaces. These surface modifications can produce long lasting or semi-permanent multi-use benefits that, in some embodiments, may include at least one of the following improved surface properties: cleaning, wettability, liquid strike-through, comfort, stain resistance, soil removal, malodor control, modification of surface friction, reduced damage to abrasion and color enhancement, relative to the surfaces unmodified with such nanoparticle systems.

Classifications:

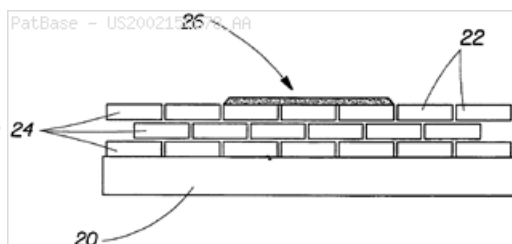
International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/472 A61F13/49 A61F13/511 A61F13/53 A61F13/534 A61F2/00 A61F5/44 B05D1/00 B05D3/00 C08J7/18 C08K3/10 C08K3/20 C08K9/04 C09D1/00 C09D201/00 C09D5/00 C09K3/00 C11D11/00 C11D17/00 C11D3/00 C11D3/12 D06M10/00 D06M10/06 D06M11/44 D06M11/45 D06M11/46 D06M11/77 D06M11/78 D06M11/79 D06M23/08 D06P5/02 D06P5/20 (Advanced/Invention); C11D3/12 (Advanced/Non-invention)

International (IPC 1-7): A61F0/00 A61F13/15 A61F13/20 A61F6/00 B05D1/02 B05D1/06 B05D3/06 B05D7/00 B32B27/02 B32B27/14 B32B27/18 B32B27/20 B32B3/00 B32B3/10 B32B31/18 B32B5/02 C08J7/06 C08J7/18 C08K3/18 C08K3/22 C08K3/34 C09D1/00 C09D201/00 C11D11/00 C23C14/02 D06M D06M0/00000 D06M11/44 D06M11/45 D06M11/46 D06M11/77 H05H1/24 H05H1/52

CPC: A61F13/15658 A61F13/53747 A61F2013/53721 A61F13/15203 A61F13/1565 A61F13/49446 A61F13/51 A61F13/534 A61F13/53708 A61F2013/5315 A61F2013/53472 A61F13/51121 A61F2013/51066 A61F13/51311 A61F13/8405 B41M3/006 B41M5/0047 B41M5/0058 B41M5/0064 B41M5/007 B41M5/0076 C09D1/00 C09D5/00 C11D3/001 C11D3/1213 C11D3/1253 C11D3/128 C11D11/0017 C11D11/007 C11D17/0043 D06M10/00 D06M10/06 D06M11/44 D06M11/45 D06M11/46 D06M23/08 D06P5/02 D06P5/20 K61F13/51N2 K61F13/531B K61F13/534E1 K61F13/537B5 L41M3/00P L41M5/00S10 L41M5/00S12 L41M5/00S6 L41M5/00S8

European: A61F13/15J A61F13/15M3F A61F13/15M3G A61F13/494A2 A61F13/51 A61F13/511 A61F13/534 A61F13/537B A61F13/537C2 B41M5/00S2 C09D1/00 C09D5/00 C11D11/00B10 C11D11/00B2A C11D17/00E C11D3/00B3 C11D3/12C C11D3/12G2D C11D3/12G2F D06M10/00 D06M10/06 D06M11/44 D06M11/45 D06M11/78 D06M11/79 D06M23/08 D06P5/02 D06P5/20 K61F13/51N2 K61F13/531B K61F13/534E1 K61F13/537B5 L41M3/00P L41M5/00S10 L41M5/00S12 L41M5/00S6 L41M5/00S8

US: 106/287.1 106/287.7 106/31.01 106/31.35 106/31.6 106/31.9 106/400 106/401 106/415 106/461 106/481 427/170 427/180 427/180P 427/197 427/197P 427/199 427/212 427/212P 427/280 427/280S 427/299 427/421 427/466 427/469 427/532 427/532S 427/533 427/533 427/535 427/535S 427/536 427/538 427/540 427/551 427/551S 427/553 427/554 427/558 427/558S 428/195 428/195.1 428/195.100P 428/201 428/204 428/205 428/206 428/207 428/323 428/328 428/329 428/330 428/331 428/334 428/402 428/402S 442/148 442/59 523/207 523/210 523/216 523/220 524/283 524/430 524/431 524/444 524/445 524/445S 524/449 524/451 524/492 524/492S 604/360 604/360P 604/367 604/367P 604/367P 604/367S 604/378 604/385.01 604/385.010S 604/385.101



Family:

Publication number	Publication date	Application number	Application date
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WO04071342 A3	20061207	WO2004US03625	20040210

Priority:

US20010265013P	20010130	US20020060582	20020130	US20020060708	20020130
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US20060480194	20060630				

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): CARTER JOHN D ; CARTER JOHN DAVID ; CRAMER RONALD D ; CRAMER RONALD DEAN ; PONOMARENKO EKATERINA ANATOLYE ; LAURENT JAMES CHARLES THEOPHIL ; PONOMARENKO EKATERINA ANATOLYEVNA ; PONOMARENKO EKATERINA A ; PROCTER AND GAMBLE ; THUENMLER KARL EDWARD ; SCHMIDT MATTIAS ; ST LAURENT JAMES CHARLES THEOP ; ROHRBAUGH ROBERT H ; ROHRBAUGH ROBERT HENRY

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PONOMARENKO EKATERINA ANATOLYE CARTER JOHN DAVID C ; MATTIAS PONOMARENKO EKATERINA
; ROHBAUGH ROBERT HENRY ; BURCKETT ST LAURENT JAMES PHIL ; RAY MCDONALD MICHAEL ; IV
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THEOPHILE ROGER

Inventor(s): IV THOMAS GLENN JORDAN ; ROBERT HENRY ROHBAUGH ; PONOMARENKO EKATERIAN ANATOLYEVNA
; BURCKETT STLAURENT JAMES CHARLES THEOPHILE ROGER ; ROHRBAUGH ROBERT HENRY JORDAN
GLENN THOMAS IV ; ST LAURENT JAMES CHARLES THEOPHILE ROGER BURCKETT ; PONOMARENKO
EKATERINA ANATOLYE CARTER JOHN... ; PONOMARENKO EKATERINA ANATOLYE CARTER JOHN DAVID
CRAMER RONALD DEAN SCHMIDT MATTIAS ; ROHRBAUGH ROBERT ; CARTER JOHN ; PONOMARENKO
EKATERINA ; CRAMER RONALD ; JORDAN G ; ROHRBAUGH R ; CARTER J ; BURCKETT S ; LIDDLE
HCRAMER R THUENMLER K ; MCDONALD M ; GOSSELINK E ; PONOMARENKO ; ROHRBAUGH ROBERT
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INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION;
DARA M; KEN K; ERIC T; STEVEN W; LAURA R; KIM WILLIAM; STEPHEN T; KATHLEEN Y; JOHN G;
GEORGE H

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

17) Family number: 59133691 (US2015121810A)

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Title: FLEXIBLE CONTAINERS AND METHODS OF MAKING THE SAME

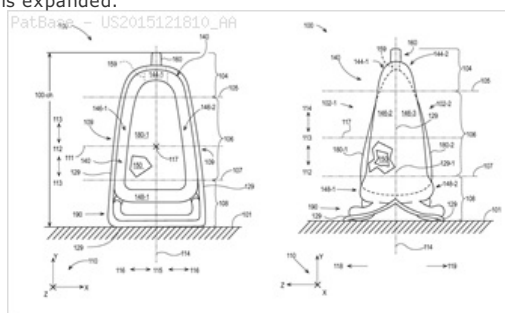
Abstract: A method of expanding a structural support volume of a flexible container can include dispensing a cryogenic fluid into at least one structural support volume and sealing the at least one structural support volume such that it has a closed volume prior to complete conversion of the cryogenic fluid into a gas and expansion of the structural support volume to a pressurized state. The flexible container includes a product volume and at least a portion of the structural support volume extends into the product volume when the structural support volume is expanded.

Classifications:

International (IPC 8-9): B65B1/02 B65B3/02 B65B31/00 B65B31/04
B65B39/00 B65B5/02 B65B9/20 B65D B65D1/40 B65D30/16
B65D33/02 B65D75/00 B65D75/52 B65D75/58 (Advanced/Invention)

CPC: B65D2207/00 B65D75/00 B65B1/02 B65B3/02 B65B5/02
B65B9/2049 B65B31/00 B65B31/006 B65D75/008 B65D75/525
B65D75/5872 B65B39/007

US: 53/434



Family:

Publication number	Publication date	Application number	Application date
BR112016010152 A2	20170801	BR20161110152	20141106
CA2926351 AA	20160404	CA20142926351	20141106
CN105705433 A	20160622	CN201480061155	20141106
CN105705433 B	20180126	CN201480061155	20141106
EP3066026 A1	20160914	EP20140806119	20141106
ID201705668 A	20170526	ID2016P0002506	20141106
IN201617011734 A	20160819	IN201617011734	20160402
JP2016535708 A2	20161117	JP20160552478	20141106
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JP2018108866 A2	20180712	JP20180076272	20180411
KR101936484 B1	20190108	KR20167011785	20141106
KR20160067162 A	20160613	KR20167011785	20141106
MX2016005516 A1	20160722	MX20160005516	20141106
PH2016500835 A	20160613	PH20160500835	20160505
RU2016112351 A	20171211	RU20160112351	20141106
US2015121810 AA	20150507	US20140534214	20141106
US10131457 BB	20181120	US20140534214	20141106
WO15069822 A1	20150514	WO2014US64210	20141106
ZA201602939 A	20190424	ZA20160002939	20160503

Priority:

US20130900810P 20131106 JP20160552478T 20141106 US20140534214 20141106
WO2014US64210 20141106 JP20180076272 20180411

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): LESTER JOSEPH CRAIG ; YOU JUN ; STANLEY SCOTT KENDYL ; BOURGEOIS MARC RICHARD ; CLARE
BENJAMIN JACOB ; COX DONALD JOSEPH ; ISHIHARA TADAYOSHI ; PROCTER AND GAMBLE CO

Inventor(s): (std): LESTER JOSEPH CRAIG ; BOURGEOIS MARC RICHARD ; ISHIHARA TADAYOSHI ; CLARE BENJAMIN
JACOB ; COX DONALD JOSEPH ; STANLEY SCOTT KENDYL ; YOU JUN ; ISHIHARA TADAYOSHI ;
YOUJUN ; BENJAMIN JACOB CLARE ; MARC RICHARD BOURGEOIS ; JOSEPH CRAIG LESTER ; DONALD
JOSEPH COX ; SCOTT KENDYL STANLEY ; TADAYOSHI ISHIHARA ; KENDYL STANLEY SCOTT ; JACOB
CLARE BENJAMIN ; CRAIG LESTER JOSEPH ; RICHARD BOURGEOIS MARC ; JOSEPH COX DONALD

Inventor(s): TODAYOSHI ISHIHARA ; JUN YOU

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; MAULITTA PRAMULASARI; TANI AND ABE

PC; WEIRICH DAVID M; CAMP JASON J; GUFFEY TIMOTHY B

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

18) Family number: 52536718 (US2013040810A)

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Title: ARTICLES COMPRISING REINFORCED POLYURETHANE COATING AGENT

Abstract: Articles, such as absorbent articles, are described, comprising a coating or film, for example applied to superabsorbent polymer particles, the coating or film containing a polyurethane polymer material, containing polyurethane polymers with covalently bonded modified silica-containing material.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/53 A61L15/18 A61L15/26 A61L15/60 B01J20/26 B26B21/00 B26B21/22 B26B21/40 C08G18/08 C08G18/32 C08G18/42 C08G18/66 C08G18/73 C08G18/75

C09D175/04 (Advanced/Invention);

B82Y30/00 (Advanced/Non-invention)

CPC: C09D175/04 A61F13/53 A61L15/18 A61L15/26 A61L15/60

A61L2420/04 B26B21/4012 C08G18/0823 C08G18/3228

C08G18/3234 C08G18/4238 C08G18/6659 C08G18/73 C08G18/755

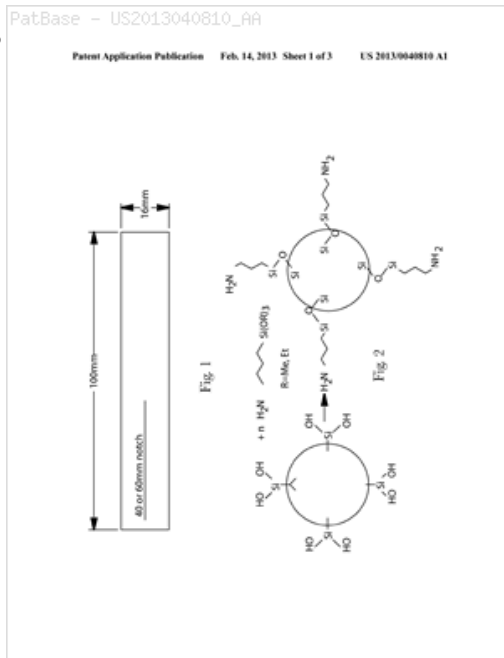
A61F2013/530708

European: B26B21/40B C08G18/08B6C C08G18/32B2

C08G18/32B4 C08G18/42C3 C08G18/66M4 C08G18/73

C08G18/75B6C3 C09D175/04

US: 30/50 502/402 977/783



Family:

Publication number	Publication date	Application number	Application date
BR112013030283 A2	20161129	BR20131130283	20120531
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EP2569383 A1	20130320	EP20120728877	20120531
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US2013040810 AA	20130214	US20120461021	20120501
US8664151 BB	20140304	US20120461021	20120501
WO12166831 A1	20121206	WO2012US40062	20120531

Priority:

US20110491928P 20110601 US20120461021 20120501 EP20120728877 20120531
WO2012US40062 20120531

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BUHIRU JENSEN KIZIRI ; CZUPIK MICHAELA MONIKA ; HAEBERLE KARL ; HOERNER KLAUS DIETER ; MCKIERNAN ROBIN LYNN ; MEYER AXEL ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO CINCINNATI

Inventor(s): (std): CZUPIK MICHAELA MONIKA ; HAEBERLE KARL ; HOERNER KLAUS DIETER ; BUHIRU JENSEN KIZIRI ; MEYER AXEL ; MCKIERNAN ROBIN LYNN ; MCKIERNAN ROBIN LYNN

Inventor(s): MICHAELA MONIKA CZUPIK ; KLAUS DIETER HOERNER ; JENSEN KIZIRI BUHIRU ; AXEL MEYER ; KARL HAEBERLE ; ROBIN LYNN MCKIERNAN ; MCKIERNAN ROBIN LYNN MASON ; CZUPIK MICHAELA MONIKA CINCINNATI

Agent(s): KREMER VERONIQUE MARIE JOSEPHINE; ANDREW A; PROCTER AND GAMBLE CO

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

19) Family number: 30220720 (US2005223479A)

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Title: GARMENTS THAT AUTOMATICALLY DISROBE IN RESPONSE TO REMOTE CONTROL MEANS

Abstract: A system of removing garments from a person (250) by remote control wherein garment closures open automatically in response to remote commands issued by an operator (249). These commands include the operator's voice (246) and wireless commands issued by a Remote Undressing Means (247). A TV remote control (292) preferably may be used to issue undressing commands. Means internal to the garment closures (eg. clock (283)) may moderate opening of automated closures. Opening of garment closures may also be influenced by the GPS coordinates (244) of the wearer and by commands issued to plural wearers of auto-undress garments to enhance the enjoyment of games of chance (243), parties

International (cs-9): A41D1/00 A41D13/00 A41D27/00 A41F1/00
A44B99/00 (Advanced/Invention);
A41D1/00 A41F1/00 A44B99/00 (Core/Invention)
International (ipc 1-7): A41D1/00 A41F1/00 A44B21/00
CPC: H04N5/4403 A41D1/002 A41F1/00
European: A41F1/00 H04N5/44R A41D1/00B A41F1/00
US: 2/1 2/1P 2/243.1 2/243.100S 2/69 2/69P 2/905 2/905S



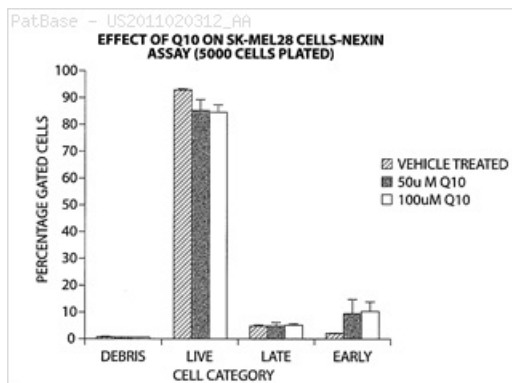
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C12N15/09 (Advanced/Non-invention);
A61P35/00 (Core/Invention);
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Probable Assignee: BERG LLC

Assignee(s): (std): BERG BIOSYSTEMS LLC ; BERG LLC ; BERG PHARMA LLC ; CYTOTEC LABS LLC ; MCCOOK JOHN PATRICK ; NARAIN NIVEN RAJIN ; SARANGARAJAN RANGAPRASAD

Inventor(s): (std): SARANGARAJAN RANGAPRASAD ; NARAIN NIVEN RAJIN ; MCCOOK JOHN PATRICK ; RAJIN NARAIN NIVEN ; PATRICK MCCOOK JOHN ; RANGAPRASAD SARANGARAJAN ; JOHN PATRICK MCCOOK ; NIVEN RAJIN NARAIN

Agent(s): FB RICE; FB RICE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; HOFFMANN EITL; CHINA PATENT AGENT HK LTD; DR SHLOMO COHEN AND CO; ARAI EIICHI; FUJITA TAKASHI; TANAKA NATSUO; HIRAKI YUSUKE; HIRAKI AND ASSOCIATES; DREW AND NAPIER LLC; MCCARTER AND ENGLISH LLP BOSTON; ELIZABETH A; MCCARTER AND ENGLISH LLP; JILL; MELLO JILL; HANLEY ELIZABETH A 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

21) Family number: 61594782 (US2016033792A)

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Title: WEARABLE CAMERA SYSTEMS AND APPARATUS AND METHOD FOR ATTACHING CAMERA SYSTEMS OR OTHER ELECTRONIC DEVICES TO WEARABLE ARTICLES

Abstract: Wearable electronic devices, for example wearable camera systems, and methods for attaching electronic devices such as camera systems to eyewear or other wearable articles are described.

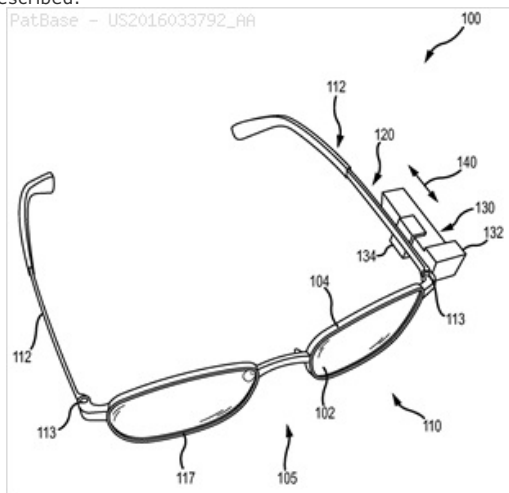
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International (ipc 1-7): G02B27/00 G02C9/00 G03B17/04

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Priority:

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US20140048820P	20140911	US20140052910P	20140919	US20140053275P	20140922
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US20150132224P	20150312	US20150133420P	20150315	US20150140276P	20150330
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US20150186341P	20150629	US20150189101P	20150706	US20150189916P	20150708
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US20160183368	20160615	US20160337796	20161028	WO2016US59395	20161028
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US20180863474	20180105	US20180965396	20180427	US20180964910	20180427
US20190450752	20190624	US20190453667	20190626	US20190597137	20191009

Probable Assignee: POGOTEC INC

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Agent(s): PIPERS; GOWLING WLG CANADA LLP; D YOUNG AND CO LLP; LI WING HONG; DEACONS; YKI PATENT ATTORNEYS; YKI INTELLECTUAL PROPERTY ATTORNEYS; MORITA HIROSHI; GOULING VLG INTERNESHNL INK KANADA G MOSKVA UGRYUMOV VLADISLAV MIKHAILOVICH; DORSEY AND WHITNEY LLP; WETZEL ELEN ET AL; SPAITH JENNIFER ET AL; DORSEY AND WHITNEY LLP 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 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

22) Family number: 56775827 (US2015314034A)

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Title: PROCESS FOR PRODUCING WATER-ABSORBING POLYMER PARTICLES

Abstract: A process for preparing water-absorbing polymer particles, comprising polymerisation of a foamed monomer solution or suspension, drying, grinding, classification and spray-coating the water-absorbing polymeric particles with an elastic film-forming polymer in a fluidised bed reactor in the range from 0 degrees centigrade to 50 degrees centigrade and heat-treating the coated particles at a temperature above 0 degrees centigrade

Classifications:

International (IPC 8-9): A61L15/22 A61L15/60 B05D1/02 B05D1/22 B29C71/02 C08F2/16 C08J3/12 C08J7/04 C08J9/12 (Advanced/Invention)

CPC: B05D1/02 B05D1/22 A61L15/22 A61L15/60 A61L15/22 C08J3/12 C08J7/04 C08J7/08 C08J9/12 C08J9/365 C08J2201/026 C08J2207/12 C08J2333/02 C08J2353/00 C08J3/07

US: 252/194 427/213

Family:

Publication number	Publication date	Application number	Application date
 CN104981257 A	20151014	CN201380072645	20131213
 EP2934609 A1	20151028	EP20130811161	20131213
 JP2016508167 T2	20160317	JP20150548386T	20131213
 US2015314034 AA	20151105	US20130651712	20131213
 WO14095633 A1	20140626	WO2013EP76545	20131213

Priority:

EP20120199122 20121221 US20120740473P 20121221 EP20130811161 20131213
WO2013EP76545 20131213 US20130651712 20131213

Probable Assignee: BASF SE

Assignee(s): (std): BASF SE

Inventor(s): (std): HOERNER KLAUS DIETER ; SIEGEL BERND ; LINSNBUEHLER MARKUS ; LINSNBUEHLER MARKUS ;
HORNER KLAUS DIETER

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

23) Family number: 64813858 (US2017027168A)

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Title: METHODS, PRODUCTS, AND SYSTEMS RELATING TO MAKING, PROVIDING, AND USING NANOCRYSTALLINE (NC) PRODUCTS COMPRISING NANOCRYSTALLINE CELLULOSE (NCC), NANOCRYSTALLINE (NC) POLYMERS AND/OR NANOCRYSTALLINE (NC) PLASTICS OR OTHER NANOCRYSTALS OF CELLULOSE COMPOSITES OR STRUCTURES, IN COMBINATION WITH OTHER MATERIALS

Abstract: Methods, apparatus, products, and/or systems relating to making or using nanocrystalline (NC) products comprising a combination of one or more of nanocrystalline cellulose (NCC), nanocrystalline (NC) polymers, nanocrystalline (NC) plastics or other nanocrystals of cellulose composites or structures that have been processed into one or more of solid, flake, particles or other forms with vapor processing, solid state processing, liquid processing or other processing methods that can optionally be combined with other materials for different nanocrystalline (NC) applications, products or uses, and the like.

Classifications:

International (IPC 8-9): A01N25/10 A01N25/30 A61K31/717 A61K49/00 A61L27/34 A61L27/50 A61P17/00 A61P39/00 A61P39/04 C08J3/20 C08L1/02 (Advanced/Invention)

CPC: A01N25/10 A01N25/30 A61L27/34 A61L27/50 A61L2400/12

US: 1/1 504/358

Family:

Publication number	Publication date	Application number	Application date
 CA2898513 AA	20170127	CA20152898513	20150727
 US2017027168 AA	20170202	US20160220046	20160726

Priority:

CA20152898513 20150727

Probable Assignee: HEATH STEPHAN

Assignee(s): (std): HEATH STEPHAN

Inventor(s): (std): HEATH STEPHAN

Agent(s): MILTONS IP PI

24) Family number: 43217973 (US2009118574A)

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Title: PANTY FOR HEIGHTENING SEXUAL EXPERIENCE DURING COITUS

Abstract: A panty includes a panty body defining a waist opening of the panty body, the panty body including a crotch portion that extends between and connects a front portion of the panty body with a rear portion of the panty body so as to define two leg openings of the panty body; wherein the crotch portion of the panty body is removably fastened to the front portion of the panty body such that the crotch portion may be detached from the front portion of the panty body.

Classifications:

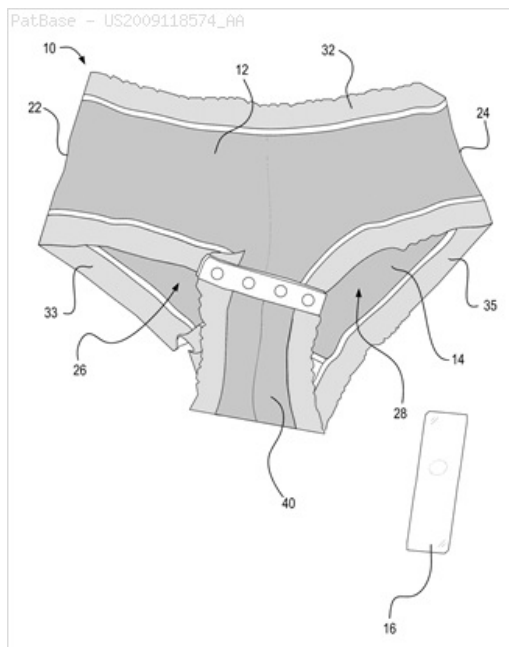
International (IPC 8-9): A41B9/04 A61B19/00 A61F5/00 A61H5/00 (Advanced/Invention);

A41B9/00 A61B19/00 A61F5/00 A61H5/00 (Core/Invention)

CPC: A41B9/04 A41B9/007 A41B2300/324 A41B2400/32

European: A41B9/00C2 A41B9/04 K41B300/324 K41B400/32

US: 128/898 128/898S 2/406 2/406S 600/38 600/38P 601/15 601/15S



Family:

Publication number	Publication date	Application number	Application date
US2009118574 AA	20090507	US20080266436	20081106

Priority:

US20070985956P 20071106 US20080266436 20081106

Probable Assignee: STEPHENSON KAREN H

Assignee(s): (std): STEPHENSON KAREN H

Inventor(s): (std): STEPHENSON KAREN H

Agent(s): TILLMAN WRIGHT PLLC

25) Family number: 4561974 (US4923650A)

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Title: BREATHABLE MICROPOROUS FILM AND METHODS FOR MAKING IT

Abstract: A method for making soft, flexible, microporous films having high tensile strength and high breathability levels for air and water vapor and high hydrostatic resistance to penetration by liquid water, in which a film fabricated by blending a mixture of a polymer or copolymer of an alpha-olefin with 60 to 75 percent by weight of an inorganic filler or glass beads having particle sizes within the range of 10 to 15 micrometers and calcium stearate as a processing aid is biaxially stretched from about 1.5 to about 7 times in each direction at a temperature of from about 20 DEG to about 160 DEG C, and the moisture level in the blended composition is maintained below 700 parts per million before fabricating the film; the film so made having a Gurley porosity of from 0.1 to 20 seconds; and its use in disposable items such as panty liners, diapers, bed sheets, and hospital gowns, or, if the filler consists of glass beads, its use as a battery separator.

Classifications:

International (ipc 8-9): A47G9/00 A61F13/00 A61F13/02 A61F13/15 A61F13/514 A61L15/18 A61L15/24 B01D71/26 B29C55/00 C08J5/18 C08J9/00 C08K3/00 C08K7/20 C08L23/02

H01M2/16 (Advanced/Invention);

A47G9/00 A61F13/02 A61F13/15 C08J9/00 (Advanced/Non-invention);

A61F13/00 A61F13/15 A61L15/16 B01D71/00 B29C55/00 C08J5/18

C08J9/00 C08K3/00 C08K7/00 H01M2/16 (Core/Invention);

A47G9/00 A61F13/02 A61F13/15 (Core/Non-invention)

International (ipc 1-7): A41B9/12 A41D13/12 A47G9/02 A61F13/15

A61F13/16 B01D13/00 B01D71/02 B01D71/26 B29C55/12

B65B25/04 C08J5/18 C08J9/00 C08J9/32 C08J9/36 C08K3/00

C08K3/02 C08K7/18 C08K7/20 C08L23/00 C08L23/02 H01M2/14

CPC: Y10S264/06 A61F13/00 A61F13/023 A61F2013/00255

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A61F13/5146 A61F13/51462 A61F2013/51415 A61L15/18 A61L15/24

B29C55/005 B29K2105/04 B29K2105/16 C08J5/18 C08J2323/02

C08K7/20 Y10T428/1376 Y10T428/249978 Y10T428/249986

C08K3/013

European: A61F13/00 A61F13/15M6C A61F13/514B1A

A61F13/514B1B A61L15/18 A61L15/24 B29C55/00B C08J5/18

C08K3/00P5 C08K7/20 H01M2/16C3 K47G9/00B K61F13/00J13B

K61F13/00L10B K61F13/02C K61F13/514A4A2 L29K105/04

L29K105/16 M08J323/02 Y02E60/12

US: 206/524.6 264/210.7 264/211 264/288.8 264/290.2 264/41

264/45.3 264/DIG.6 426/395 428/315.5 428/317.9 428/36.5 521/142

521/143 521/91 521/92 521/93 55/159 96/6

PatBase - CA1327259_A1

SUBSTITUTE

REMPLACEMENT

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
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AU608169 B2	19910321	AU19890039034	19890727
BRPI8903742 A	19900320	BR1989PI03742	19890727
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DK370689 A	19900128	DK19890003706	19890727
DK370689 A0	19890727	DK19890003706	19890727
EP0352802 A2	19900131	EP19890113910	19890727
EP0352802 A3	19900816	EP19890113910	19890727
IL91130 A0	19900319	IL19890091130	19890727
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JP2127445 A2	19900516	JP19890195395	19890727
MX166789 B	19930204	MX19890016947	19890727
NZ230093 A	19911126	NZ19890230093	19890726
US4923650 A	19900508	US19880224632	19880727
US5008296 A	19910416	US19900500975	19900329
US5011698 A	19910430	US19900608785	19901105

Priority:

US19880224632 19880727 CA19890606649 19890726 US19900500975 19900309
US19900500975 19900329 US19900608785 19901105

Probable Assignee: APPLIED EXTRUSION TECHNOLOGIES INC

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Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO; REINHOLD COHN
AND PARTNERS

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