

Search history

Search 1: [SP]: The elastic elements have a return force between 0.30 N and 0.80 N in an extension of 70% of the accessible extension. (Results 500)
Search 2: 1 and diaper (Results 25)

1) Family number: 31522086 (US2005031852A)

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Title: ABSORBENT ARTICLE COMPRISING COATED WATER-SWELLABLE MATERIAL

Abstract: This invention is directed to an absorbent structure comprising a solid, typically particulate, water-swellaable material that comprises coated water-swellaable, preferably hydrogel-forming polymers, which are coated with a coating agent, which is such that it does not rupture when the polymers swell in a liquid, e.g., water or saline water. Hereto, the coating agent is extensible in wet state and comprises thereto a wet-extensible material that has a wet-elongation of at least 400 percent or even at least 500 percent, and preferably a tensile stress at break in the wet state of at least 1 MPa. Typically, the coating agent comprises thereto an elastomeric polymeric material.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/49 A61F13/53 A61L15/00 A61L15/16 A61L15/42

A61L15/60 B01J20/26 B05D3/02 B05D5/00 B05D7/00 B32B15/02 B32B17/02 B32B19/00 B32B21/02 B32B23/02 B32B27/02 B32B5/16 B32B9/00 C08J3/12 C08J7/00 C08J7/04 C08J9/00 C08K3/00 C08L67/00 (Advanced/Invention);

A61F5/44 A61L15/00 A61L15/42 A61L15/60 (Advanced/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61L15/00 A61L15/42 A61L15/60 B32B1/00 B32B27/00 B32B27/08 B32B3/02 B32B5/16 C08J7/00 C08J9/00 C08K3/00 D02G3/00

CPC: Y10S428/913 C08J2333/00 C08J3/126 Y10T428/239 Y10T428/254 Y10T428/2998 Y10T428/24264 Y10T428/2991

Y10T428/2933 Y10T428/2982 C08J3/12 C08J2300/14 C08J7/04 Y10T428/23986 Y10T428/31551 Y10T428/23929 A61L15/60

European: A61L15/60 C08J3/12 C08J7/04 M08J300/14

US: 427/212 427/213.3 427/213.31 427/213.32 427/213.33 427/213.34 427/213.35 427/213.36 427/222 427/222S 427/372.2 427/374.1 427/374.100S 427/384 427/385.5 427/393.5 428/130 428/327 428/327P 428/327S 428/375 428/375P 428/402 428/403 428/403P 428/407 428/407S 428/423.1 428/76 428/76S 428/88 428/88S 428/913 428/96 428/96S 523/201 524/556 525/902 525/902S 602/43 602/43S 604/367 604/368 604/370 604/370P 604/372 604/372P 604/372S

Family:

Publication number	Publication date	Application number	Application date
AT495764 E	20110215	AT20040780473T	20040805
AT501740 E	20110415	AT20040780639T	20040805
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US8137746 BB	20120320	US20040911797	20040805
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Priority:

US20030492819P 20030806	US20030492899P 20030806	EP20040780640 20040805
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WO2004US25835 20040805	WO2004US25836 20040805	WO2004US25837 20040805
US20080237824 20080925	US20090398248 20090305	

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BASF CORP ; BASF SE ; DIVO MICHAEL ; EHMSPERGER BRUNO JOHANNES ; PROCTER AND GAMBLE ; SCHMIDT MATTIAS ; MEYER AXEL ; FOSSUM RENAE DIANNA ; GOLDMAN STEPHEN ALLEN ; EHRNSPERGER BRUNO JOHANNES ; URANKAR EDWARD ; MEYER AXEL DR ; BASF AG ; THE PROCTER AND GAMBLE COMPANY ; URANKAR EDWARD JOSEPH

Assignee(s): PROCTER and GAMBLE COMPANY ; PROCTER AND GAMBLE COMANY ; BASF AKTIENGESSELLSCHAFT ; PROCTER AND GAMBLE CO

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Inventor(s): SCHMIDT MATTIAS MEYER AXEL FOSSUM RENAE DIANNA GOL ; GOLDMAN STEPHEN ALLEN VIA COLLE DI MORO 62 ; SCHMIDT MATTIAS MEYER AXEL FOSSUM RENAE DIANNA... ; FOSSUM RENAE DIANNA MIDDLETOWN ; SCHMIDT MATTIAS MEYER AXEL FOSSUM RENAE DIANNA EHRNSPERGER BRUNO JOHANNES GOLDMAN STEPHEN ALLEN DIVO MICHAEL URANKAR EDWARD JOSEPH ; SCHMIDT MATTIAS MEYER AXEL FOSSUM RENAE DIANNA GOLDMAN STEPHEN ALLEN URANKAR EDWARD JOSEPH EHRNSPERGER BRUNO JOHANNES ; SCHMIDT MATTIAS MEYER AXEL FOSSUM RENAE DIANNA EHR ; EDWARD URANKAR ; FOSSUM RENAE DIANNA SCHMIDT MATTIAS MEYER AXEL

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; ROBIC; MCGREGOR JUDIT ESTER; POHL KATHRIN; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; THE PROCTER AND GAMBLE COMPANY, GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; THE PROCTER AND GAMBLE COMPANY, GLOBAL LEGAL DEPARTMENT - IP; KEN K; DARA M; DRESSLE SARAH ANN; COLBERT JOHN P; JOHN P; SARAH ANN; KENDALL DARA M; ADDINGTON ERIC T; POWELL JOHN G; ERIC T; JOHN G; 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 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

2) Family number: 33814131 (US2006264866A)

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Title: SYSTEM COMPRISING THONG-SHAPED HOLDER AND ABSORBENT ARTICLE

Abstract: A system comprising a thong-shaped holder for holding an absorbent article in close bodily contact in the pudendal region of the wearer. The holder comprises a front region, a crotch region having a specified Crotch Holding Force, and a rear region. The crotch region of the holder typically is elastically extensible in both the longitudinal and lateral directions. The holder provides an upward holding force against the absorbent article in the crotch region to hold the article in close bodily contact. A method for holding such an article in close bodily contact by wearing the holder is also disclosed.

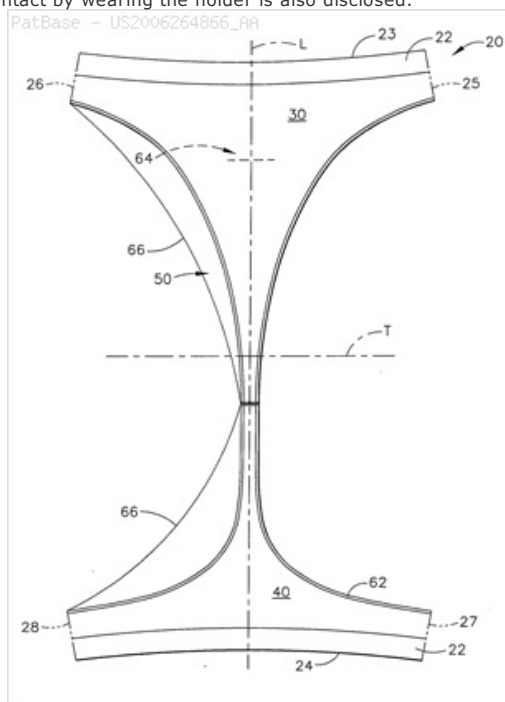
Classifications:

International (IPC 8-9): A41B9/04 A61F13/15 A61F13/20 A61F13/58 A61F13/72 (Advanced/Invention); A61F13/15 (Core/Invention)

CPC: A61F13/47254 A61F13/4752 A61F13/505 A61F13/66 A61F13/47 A61F13/496 A61F13/15203 A61F13/4942 A61F13/72 A61F13/4704 A61F13/472 A61F13/47227 A61F13/475 A61F13/476 A61F13/68 A61F2013/15292 A61F2013/15373 A61F2013/1539 A61F2013/47281 A61F2013/8497 A61F13/82 A61F13/551 A61F2013/4729 A61F13/8405 A61F2013/51117 A61F13/47272 A61F13/5611 A61F13/5616 A61F13/64

European: A61F13/15J A61F13/47 A61F13/472B1 A61F13/472C1B A61F13/472E A61F13/475 A61F13/475A1 A61F13/476 A61F13/47B A61F13/494A1A A61F13/496 A61F13/505 A61F13/551 A61F13/56B2 A61F13/56B4 A61F13/64 A61F13/66 A61F13/68 A61F13/72 A61F13/82 A61F13/84B K61F13/15J8A K61F13/15J8D1 K61F13/15J8D2 K61F13/472 K61F13/472F K61F13/472G K61F13/475 K61F13/47B K61F13/511C1 K61F13/84B K61F13/84G

US: 2/407 2/407S 604/385.01 604/385.22 604/385.26 604/387 604/387P 604/396 604/396P 604/396S 604/402 604/402S



Family:

Publication number	Publication date	Application number	Application date
CA2609406 AA	20071122	CA20062609406	20060522
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WO06127554 A3	20070510	WO2006US19655	20060522

Priority:

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US20100977749	20101223				

Probable Assignee: RUSL LLC

Assignee(s): (std): CARSTENS JERRY E ; CARSTENS JERRY EDWARD ; RUSL LLC

Inventor(s): (std): CARSTENS JERRY E ; CARSTENS JERRY EDWARD

Inventor(s): CARSTENS JERRY

Agent(s): LEDGLEY CYNTHIA J; LEDGLEY LAW; HASSE AND NESBITT LLC; HASSE DONALD E; DONALD E

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

Title: DISPOSABLE ABSORBENT ARTICLE

Abstract: A disposable garment having a side elastomeric material and a waist elastomeric material is disclosed. The disposable garment has a front region, a back region, a crotch region between the front region and the back region. The disposable garment comprises a chassis, a waist elastomeric material, a side elastomeric material, and seams. The chassis has a topsheet, a backsheet joined with the topsheet, and an absorbent core interposed between the topsheet and the backsheet. The chassis has a central panel having a waist edge and side edges, an ear panel having a waist edge, and a waistband panel in the front region and the back region. The ear panel extends laterally outwardly from each side edge of the central panel. The waistband panel extends longitudinally outwardly from the waist edge of the central panel and the waist edge of the ear panel. The waist elastomeric material is joined to and extending continuously along the waistband panels in the front region and the back region so as to form a continuous extensible waistband in the front region and the back region. The side elastomeric material is joined to the ear panel so as to form extensible ears. The side elastomeric material and the waist elastomeric material are separate elements and are disposed so as not to overlap to each other. The seams join each ear panel to a corresponding portion in the ear panel so as to form two leg openings and a waist opening such that the extensible waistbands form a continuous extensible waist feature.

Classifications:

International (ipc 8-9): A61F A61F13/15 A61F13/20 A61F13/49 A61F13/496 A61F13/56 A61F13/72 A61F5/44

A61L15/22 (Advanced/Invention);

A61F13/15 A61F13/56 A61F5/44 (Advanced/Non-invention);

A61F13/15 A61F13/56 A61F5/44 (Core/Invention)

International (ipc 1-7): A61F13/15 A61F13/49 A61F13/496

A61F13/56 A61F13/72 A61F5/44

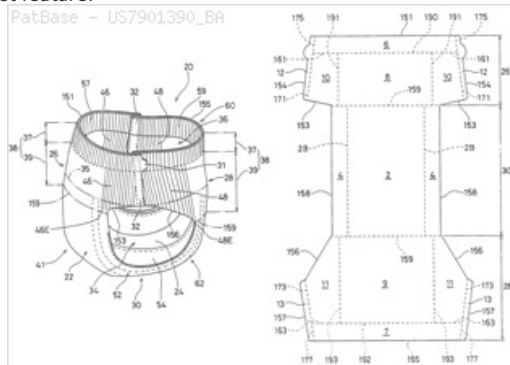
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European: A61F13/496 A61F13/49D2B A61F13/49D2D K61F13/15J8

K61F13/49D2H1 K61F13/49D2J

US: 604/385.01 604/385.24 604/396



Family:

Publication number	Publication date	Application number	Application date
AR019850 AA	20020320	AR1999P102543	19990528
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Priority:

WO1998US10847 19980528
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WO1998US10848 19980528
WO1999US11428 19990524

WO1998US10852 19980528

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ASHTON GREGORY ; FUKUDA EIRO ; FURUKAWA FUMITO ; PROCTER AND GAMBLE ; THE PROCTER AND GAMBLE COMPANY ; HAWKINS CRAIG ANDREW ; LANGDON FREDERICK MICHAEL

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Inventor(s): FUKUDA EIRO FURUKAWA FUMITO ; ASHTON G ; HAWKINS ; LANGDON F ; ERIO FUKUDA ; CRAIG ANDREW

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

4) Family number: 28851219 (US5196000A)

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Title: ABSORBENT ARTICLE WITH DYNAMIC ELASTIC WAIST FEATURE COMPRISING AN EXPANSIVE TUMMY PANEL

Abstract: Absorbent article such as disposable diapers, incontinent briefs, diaper holders and the like, that have a unique elastic waist feature that improve the dynamic fit of the elasticized waistband as well as the containment characteristics of the absorbent article. The elastic waist feature comprises an "expansive tummy panel" that is capable of expanding well- beyond the dimensions of the absorbent article set by the primary fastening system (and the original dimensions of the end edge) so as to accommodate wearers, especially large infants, with large expansile waists so as to reduce the sagging/slipping of the absorbent article. The extension forces of the elasticized waistband are lower than the extension forces of the elasticized side panels so as to accommodate such expansion. In preferred embodiments of the elastic waist feature, the elasticized waistband is formed from a stretch laminate.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/56 A61F13/58

A61F5/44 (Advanced/Invention);

A61F5/44 (Advanced/Non-invention);

A61F (Subclass/Invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/56 A61F13/58

A61F13/62 A61F5/44

CPC: A61F13/622 A61F13/49009 A61F13/15585 A61F13/47 A61F13/49011 A61F13/491 A61F2013/15284 A61F2013/15292 A61F2013/15357 A61F2013/15365 A61F2013/49031 A61F2013/49033 A61F2013/49042 A61F2013/51002 A61F2013/51019 A61F2013/51038 A61F2013/51409 A61F2013/51411 A61F2013/51429 A61F2013/51441 A61F2013/51486 A61F2013/530802 A61F2013/53791

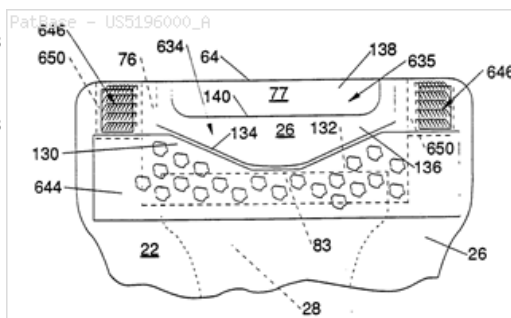
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US: 604/358 604/373 604/385.1 604/385.2 604/385.29 604/385.3



Family:

Publication number	Publication date	Application number	Application date
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WO9222272 A1	19921223	WO1992US04768	19920608

Priority:

US19910715074 19910613 US19910750774 19910822 JP19930500949 19920608
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Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; PROCTOR AND GAMBLE CO ; PROCTER AND GAMBLE CO ; BUELL KENNETH BARCLAY ; CLEAR SANDRA HINTZ ; FALCONE DANIELIA THREASE

Inventor(s): (std): CLEAR SANDRA HINTZ ; FALCONE DANIELIA THREASE ; BUELL KENNETH BARCLAY ; HINTZ CLEAR SANDRA ; BARCLAY BUELL KENNETH ; CLEAR SANDRA H ; FALCONE DANIELIA T ; BUELL KENNETH B ; FALCONE DANIELIA THREASE ; SANDRA H CLEAR ; DANIELIA T FALCONE ; KENNETH B BUELL ; BARCLAY BUEL KENNETH ; THREASE FALCONE DANIELIA ; DANIELIA THREASE FALCONE ; SANDRA HINTZ CLEAR ; KENNETH BARCLAY BUELL ; FALCONE DANIELIA ; CLEAR SANDRA ; BUELL KENNETH

Inventor(s): BUELL KENNETH BARCLAY CINCINNATI OH 45215 US ; FALCONE DANIELIA THREASE CINCINNATI OH 45223 US ; CLEAR SANDRA HINTZ MAINEVILLE OH 45039 US

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

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG

5) Family number: 18041256 (US5242436A)

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Title: ABSORBENT ARTICLE WITH FASTENING SYSTEM PROVIDING DYNAMIC ELASTICIZED WAISTBAND FIT

Abstract: Absorbent article such as disposable diapers, incontinent briefs, diaper holders, and the like, that have elasticized waistbands with a dual tensioning fastening system that improves the dynamic fit of the elasticized waistband as well as the containment characteristics of the absorbent article. The dual tension fastening system comprises a primary fastening system and a waist closure system. The waist closure system forms a waist closure that anchors a portion of the end edge of the absorbent article and that dynamically maintains/creates lateral tensions through the elasticized waistband so as to improve the fit and containment characteristics of the diaper by reducing gapping, sagging, and roll-over of the elasticized waistband. The absorbent article additionally preferably comprises a pair of elasticized side panels disposed in the second waist region. The elasticized side panels preferably comprise a "zero strain" stretch laminate and also preferably having an extension panel adjacent the leg of the wearer.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/58 A61F13/62

A61F5/44 (Advanced/Invention);

A61F5/44 (Advanced/Non-invention);

A61F (Subclass/Invention)

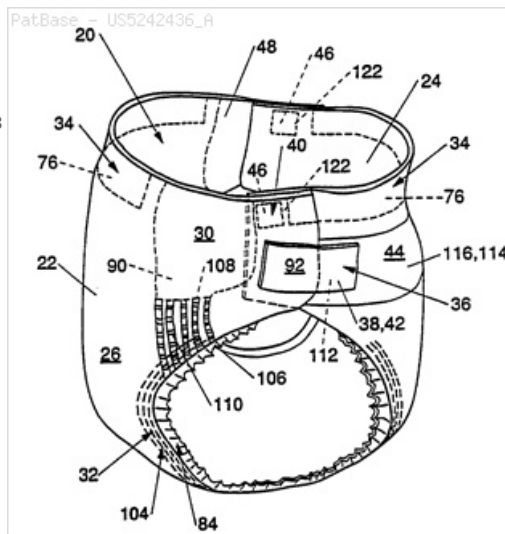
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A61F13/62 A61F5/44

CPC: A61F13/622 A61F13/493 A61F13/49009 A61F13/58

European: A61F13/493 A61F13/49D2 A61F13/58 A61F13/62

US: 604/358 604/385.1 604/385.2 604/385.29 604/386 604/391



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Priority:

US19910714476 19910613 WO1992US04775 19920608

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; PROCTER AND GAMBLE CO CINCINNATI ; PROCTOR AND GAMBLE CO ; WEIL DENIS GASTON ; BUELL KENNETH BARCLAY ; CLEAR SANDRA HINTZ

Inventor(s): (std): BUELL K B ; BUELL KENNETH B ; CLEAR S H ; CLEAR SANDRA H ; FALCONE DANIELIA T ; WEIL D G ; WEIL DENIS G ; WEIL DENIS GASTON ; WEIL DENNIS JI ; SHCLEAR ; SH CLEAR ; SANDRA HINTZ CLEAR ; PUYOL KENNETH ME ; KENNETH BARLCAY BUELL ; KENNETH BARCLAY BUELL ; KBBUELL ; KB BUELL ; FALCONE DANIELIA THREASE ; FALCON DANIELIA T ; DGWEIL ; DG WEIL ; DENIS GASTON WEIL ; DANIELIA THREASE FALCONE ; DANIELIA THREASE FALCONE ; CLEAR SANDRA HINTZ ; CLAIRE SANDRA H ; BUELL KENNETH BARLCAY ; BUELL KENNETH BARCLAY ; WEIL DENIS ; THREASE DANIELIA ; HINTZ CLEAR SANDRA ; FALCONE DANIELIA ; CLEAR SANDRA ; BUELL KENNETH

Inventor(s): S H CLEAR ; K B BUELL ; D G WEIL ; BUELL KENNETH BARCLAY CINCINNATI OH 45215 US ; DANIELIA THREASE ; CLEAR SANDRA HINTZ MAINEVILLE OH 45039 US ; FALCONE DANIELIA THREASE CINCINNATI OH 45223 US ; WEIL DENIS GASTON TORONTO ONTARIO CA

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

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG

6) Family number: 44817343 (US2010081352A)

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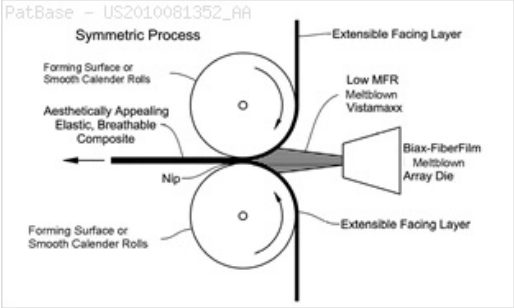
Title: POLYOLEFIN-BASED ELASTIC MELTBLOWN FABRICS

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 B29C47/00 B29C47/06 B29C47/12 B29C47/78 B29C47/88 B29C49/00 B29C65/00 B29C65/20 B29C65/48 B29C70/40 B32B25/10 B32B27/02 B32B27/08 B32B27/12 B32B27/32 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 B32B5/26 B32B7/02 B32B7/04 B32B7/12 B65C9/25 C08F110/00 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); 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 B32B37/04 B32B37/06 B32B38/00 B32B5/04 B32B5/22 B32B7/02 D01F6/04 D01F6/46 D03D9/00 D04H1/46 D04H1/54 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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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 442/1 442/15 442/268 442/268S 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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Priority:

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Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): DHARMARAJAN NARAYANASWAMI RAJA ; DHARMARAJAN RAJA N ; EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL PATENTES INC ; EXXONMOBIL CHEMICAL PATENTS INC ; MEKA PRASADARAO ; FERRY WILLIAM M ; FERRY WILLIAM MICHAEL ; RICHESON GALEN C ; EXXONMOBIL CHEMICAL PATENTS INC STAR ; WESTWOOD ALISTAIR DUNCAN ; RICHESON GALEN CHARLES ; WILLIAMS MICHAEL GLENN ; WESTWOOD ALISTAIR D

Assignee(s): EXXONMOBILE CHEMICAL PATENTS INC ; EXXONMOBIL CHEMICAL PATENTS INC BAYTOWN ; EXXONMOBIL CHEMICAL PATENTS INC US

Inventor(s): (std): WESTWOOD ALISTAIR DUNCAN ; DHARMARAJAN NARAYANASWAMI RAJA ; MEKA PRASADARAO ; DHARMARAJAN RAJA N ; FERRY WILLIAM M ; FERRY WILLIAM MICHAEL ; RICHESON GALEN CHARLES ; WILLIAMS MICHAEL GLENN ; WESTWOOD ALISTAIR D ; RICHESON GALEN C ; ALISTAIR DUNCAN WESTWOOD ; RAJA DHARMARAJAN NARAYANASWAMI ; PRASADARAO MEKA ; DUNCAN WESTWOOD ALISTAIR ; WILLIAMS MICHAEL G ; GALEN C RICHESON ; WILLIAM MICHAEL FERRY ; ALISTAIR D WESTWOOD ; GALEN CHARLES RICHESON ; CHARLES RICHESON GALEN ; GLENN WILLIAMS MICHAEL ; MICHAEL FERRY WILLIAM

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

Agent(s): UEXKUELL AND STOLBERG; UEXKUELL AND STOLBERG PARTNERSCHAFT VON PATENT U RECHTSANWAELTEN 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 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 VN ZA ZM ZW

7) Family number: 45962446 (US2010179495A)

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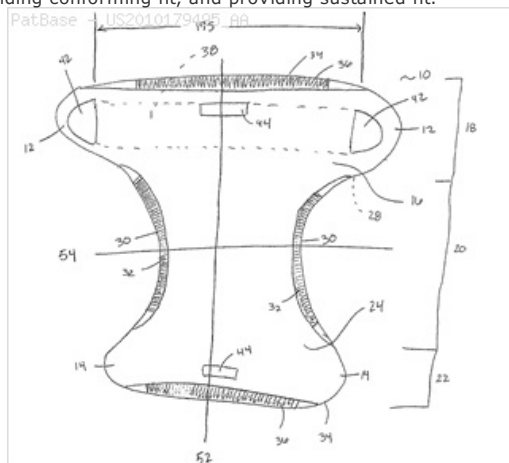
Title: REUSABLE OUTER COVER FOR AN ABSORBENT ARTICLE

Abstract: Reusable cover for an absorbent article providing two or more features selected from maintaining skin condition, fitting a range of wearer shapes and sizes, being easily applied, providing conforming fit, and providing sustained fit.

Classifications:

International (IPC 8-9): A41B9/00 A61B9/00 A61F13/15 A61F13/45 A61F13/49 A61F13/505 A61F13/514 A61F13/56 A61F13/66 A61F13/74 (Advanced/Invention); A61F13/15 A61F13/66 (Advanced/Non-invention); A61F13/15 A61F13/56 (Core/Invention)
CPC: A61F13/66 A61F13/15268 A61F2013/15333 A61F13/49014 A61F13/505 A61F13/565 A61F13/49004 A61F13/49003 A61F13/5622 A61F13/5633

European: A61F13/49B A61F13/49D2D A61F13/505 A61F13/56C
US: 1/1 2/400 604/367 604/367P 604/378 604/385.01 604/385.14 604/385.140P 604/385.15 604/385.150P 604/385.22 604/385.220P 604/385.220S 604/385.24 604/385.240S 604/385.25 604/385.250S 604/385.29 604/385.290S 604/397 604/397S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20090144833P 20090115	US20090144883P 20090115	US20100687528 20100114
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US20100687554 20100114	WO2010US21038 20100114	WO2010US21037 20100114
WO2010US21170 20100115	WO2010US21168 20100115	WO2010US21173 20100115
US20130858962 20130409		

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; ROE DONALD CARROLL ; WIGGINS ELAINE MARY ; SIMS BRET ALAN

Assignee(s): THE PROTEC AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COWORLD SHAVING HEADQUARTERSIP/LEGAL PATENT DEPARTMENT - 3EONE GILLETTE PARKBOSTONMA02127US ; PROTEC AND GAMBLE CO

Inventor(s): (std): ROE DONALD CARROLL ; WIGGINS ELAINE MARY ; SIMS BRET ALAN

Inventor(s): DONALD CARROLL ROE ; ELAINE MARY WIGGINS ; BRET ALAN SIMS ; ROE DONALD CARROLLUS

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; KREMER VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; ABBEY A; AMY M; CHRISTIAN M; CHARLES R; SARAH M; 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: FASTENING FILM SYSTEM AND ASSEMBLY COMPRISING A FASTENING FILM SYSTEM AND A SUBSTRATE

Abstract: The present invention relates to a fastening film system 1 comprising a backing 7 and an adhesive layer 6 on one of the two major surfaces of the backing 7, the backing 7 bearing on its exposed major surface 3 a opposite to the adhesive layer 6 a plurality of male fastening elements 4 capable of engaging with fibrous materials 32 having a plurality of complementary female fastening elements, and a plurality of through-holes 2 extending through the thickness 11 of the backing 7 so that the adhesive layer 6 attached to the backing 7 is exposed through such through-holes 2 wherein at least one of said through-holes 2 is encompassed by the backing 7, and wherein the fastening film system 1 releasably adheres to said fibrous materials 32 through a combination of a mechanical and an adhesive bonding mechanism.

Classifications:

International (IPC 8-9): A44B18/00 A61F13/15 A61F13/49 A61F13/56 A61F13/58 A61F13/62 D04H1/00 D04H1/44 (Advanced/Invention);

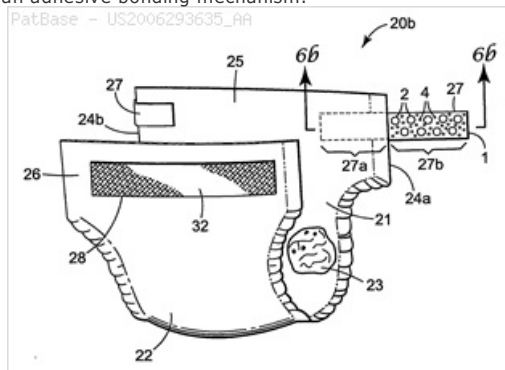
A61F13/15 A61F13/56 A61F13/58 (Advanced/Non-invention); A44B18/00 A61F13/15 (Core/Invention); A44B18/00 A61F13/62 (Core/Non-invention)

International (IPC 1-7): A44B18/00 A61F13/56 A61F13/58 A61F13/62 B32B3/06

CPC: A44B18/0034 D04H13/00 Y10T24/27 Y10T24/2708 Y10T24/2758 Y10T24/2775 Y10T24/2792 Y10T24/33 Y10T428/24008 Y10T428/24017 Y10T428/24322 Y10T428/28 Y10T428/2848 A61F13/625 A61F13/58

European: A61F13/58 A61F13/62 D04H13/00 K44B18/00D6

US: 156/66 24/304 24/306 24/442 24/448 24/450 24/452 428/100 428/137 428/343 428/354 428/99 604/385.03 604/390 604/391



Family:

Publication number	Publication date	Application number	Application date
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Priority:

EP20030012951 20030606 EP20040751818 20040510 WO2004US14620 20040510
US20050557092 20051117

Probable Assignee: 3M CO

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

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Inventor(s): (std): PETERSEN JOHANN ; OERTEL RALF ; AUSEN RONALD WAYNE ; SETH JAYSHREE ; PETERSEN JOHANN F ; JOHANN F PETERSEN ; PETERSEN JOHANN FRIEDRICH

Agent(s): Wilhelm Stefan; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; GROSS KATHLEEN B; KATHLEEN B

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

Title: UNDERWEAR-TYPE ABSORBENT ARTICLE

Abstract: This underwear-type absorbent article (1) is equipped with a stomach-side sheet member (2A), a back-side sheet member (2B) and an absorbent main body (3) affixed bridging therebetween. The stomach-side sheet member (2A) and the back-side sheet member (2B) each have an extension section (21a, 21b) and a main body section (20a, 20b) that expand/contract in the diaper-width direction. When the extension section (21b) of the back-side sheet member (2B) is divided into an upper back-side extension section (B4) and a lower back-side extension section (B5), the upper back-side extension section (B4) and the portion of the stomach-side sheet member corresponding to the upper back-side extension section (B4) have a contraction stress in the direction of article width per unit length in the direction of article length that is greater than the same contraction stress of the lower back-side extension section (B5).

Classifications:

Publication number	Publication date	Application number	Application date
■ CN103313685 A	20130918	CN201180063126	20111226
■ CN103313685 B	20150218	CN201180063126	20111226
■ DE602011048130 D1	20180530	DE201160048130T	20111226
■ EP2659870 A1	20131106	EP20110852337	20111226
■ EP2659870 A4	20170614	EP20110852337	20111226
■ EP2659870 B1	20180502	EP20110852337	20111226
■ JP2012135519 A2	20120719	JP20100291048	20101227
■ JP2012148069 A2	20120809	JP20110283482	20111226
■ JP5659006 B2	20150128	JP20100291048	20101227
■ JP5898947 B2	20160406	JP20110283482	20111226
■ KR101861798 B1	20180629	KR20137016801	20111226
■ KR20130132885 A	20131205	KR20137016801	20111226
■ RU2013135303 A	20150210	RU20130135303	20111226
■ RU2575444 C2	20160220	RU20130135303	20111226
■ SG191322 A1	20130830	SG20130048608	20111226
■ TH129174 A	20131114	TH20131003391	20111223
■ TH66946 B	20181217	TH20131003391	20111223
■ TW201236656 A	20120916	TW20110148776	20111226
■ TWI561226 B	20161211	TW20110148776	20111226
■ WO12090931 A1	20120705	WO2011JP80060	20111226

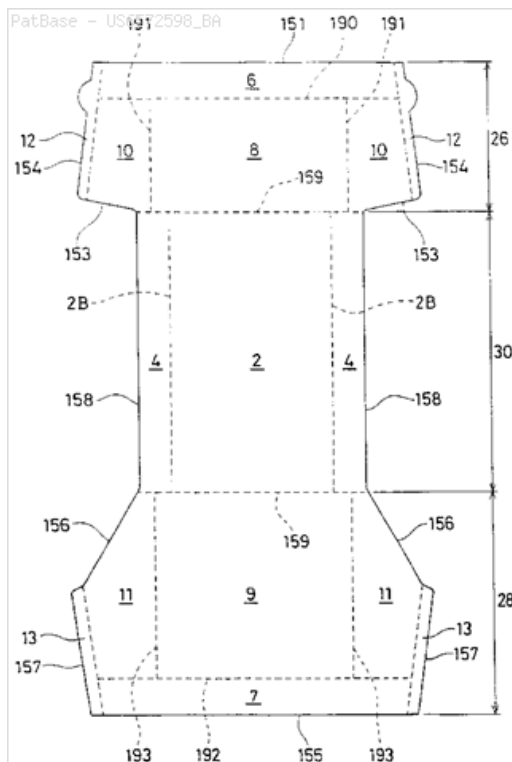
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JP20110283482 20111226 WO2011JP80060 20111226

Agent(s): VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; VOSSIUS AND PARTNER;
MATSUSHIMA YOSHIYUKI; HATORI OSAMU; HATORI OSAMU ET AL

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

Abstract: A disposable garment having enhanced extensibility around the leg openings is disclosed. The disposable garment has a front region, a back region and a crotch region between the front region and the back region. The disposable garment comprises a chassis and seams. The chassis comprises a topsheet, a backsheet joined with the topsheet, and an absorbent core interposed between the topsheet and the backsheet. The chassis has a central panel having side edges and a waist edge, and an ear panel extending laterally outwardly from each side edge of the central panel in the front region and the back region. The ear panel is rendered extensible to form an extensible ear. The extensible ear has a higher end edge, a lower end edge, an inner side edge, and an outer side edge. The outer side edge is non-parallel to the inner side edge, and is non-parallel to a longitudinal center line of the garment, and projects laterally outwardly proximate the lower end edge. A lateral width of the extensible ear between the inner side edge and the outer side edge is greater proximate the lower end edge than proximate the higher end edge. The seams join each ear panel along the outer side edge to a corresponding portion in the opposite region of the disposable garment so as to form one waist opening and two leg openings. The same is non-parallel to the longitudinal center line.

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Family:

Publication number	Publication date	Application number	Application date
AR019848 AA	20020320	AR1999P102540	19990528
AT234060 E	20030315	AT19980926097T	19980528
AU199878011 A1	19991213	AU19980078011	19980528
BRPI9815871 A	20010220	BR1998PI15871	19980528
CA2330757 AA	20001101	CA19982330757	19980528
CA2330757 C	20050315	CA19982330757	19980528
CL1999001091 A1	19991019	CL19990001091	19990528
CN1295453 A	20010516	CN19988014081	19980528
DE69812188 D1	20030417	DE19986012188	19980528
DE69812188 D1	20030417	DE19986012188T	19980528
DE69812188 T2	20031030	DE19986012188T	19980528
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EP1079779 B1	20030312	EP19980926097	19980528
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HU0103828 AB	20020228	HU20010003828	19980528
HU0103828 AC	20020328	HU20010003828	19980528
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KR20010043876 A	20010525	KR20007013368	19980528
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TR200003485 T2	20010621	TR20000003485T	19980528
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US6572598 BA	20030603	US20000700562	20001116
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ZA9903568 A	19991129	ZA19990003568	19990526

Priority:

WO1998US10850 19980528 US20000700562 20001116

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ASHTON GREGORY ; HAWKINS CRAIG ANDREW ; PROCTER AND GAMBLE

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

Inventor(s): (std): HAWKINS GRAIG A ; HAWKINS CRAIG ANDREW ; HAWKINS ANDREW ; ASHTON GREGORY NMN ; ASHTON GREGORY

Inventor(s): GREGORY ASHTON ; GRAIG A HAWKINS ; CRAIG ANDREW HAWKINS

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; HARNECKER

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

Abstract: A disposable garment having a localized retention zone for retention of the garment in its initial position on the body of a wearer. The retention zone has a higher coefficient of static friction than does the major area of the body-facing surface of the garment. The garment may also include localized areas having a lower coefficient of static friction than that of the major area to facilitate placement of the garment in a desired wearing position. Such lower coefficient of static friction areas can include the areas adjacent the leg openings and the area of the waistband that overlies the stomach of the wearer. Additionally, the garment can also include areas wherein the coefficient of static friction varies from high to low to provide improved retention and comfort over a wide range of wearing conditions and a wide range of movements of the wearer.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49

A61F13/494 A61F13/511 A61F13/53 A61F13/56 A61F13/82

A61F5/44 (Advanced/Invention);

A61F13/56 A61F5/44 (Advanced/Non-invention);

A61F13/15 A61F13/56 A61F5/44 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F13/49

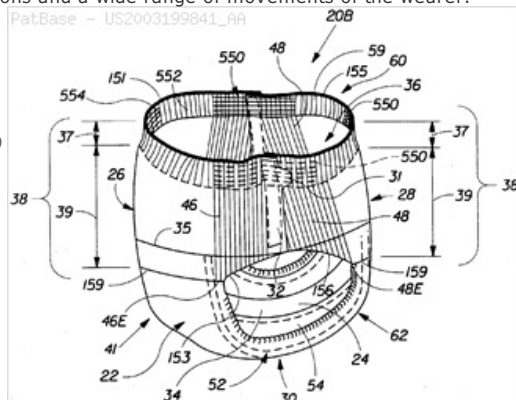
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CPC: A61F13/496 A61F2013/15284 A61F2013/49087

European: A61F13/15B3L A61F13/496 K61F13/15J8 K61F13/49N

US: 604/385.01 604/385.010P 604/385.03 604/385.3 604/385.300S

604/389 604/390 604/391



Family:

Publication number	Publication date	Application number	Application date
AR019793 AA	20020313	AR2000P102366	20000517
AT300268 E	20050815	AT20000932230T	20000509
AU200049976 A1	20001205	AU20000049976	20000509
AU200049976 A5	20001205	AU20000049976D	20000509
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TH43812 A	20010320	TH20001001667	20000512
US2003199841 AA	20031023	US20030454929	20030605
US6626879 BA	20030930	US19990312997	19990517
US7074215 BB	20060711	US20030454929	20030605
WO0069384 A1	20001123	WO2000US12699	20000509

Priority:

US19990312997 19990517 WO2000US12699 20000509 US20030454929 20030605

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; VELEZ JUAN CARLOS ; RAJAGOPALAN VIJAY ; PROCTER AND GAMBLE CO CINCINNATI ; ASHTON GREGORY ; GOULAIT DAVID JOSEPH KENNETH ; KENNETH GOULAIT DAVID JOSEPH ; LANGDON FREDERICK MICHAEL ; MOORE JULIE LYN

Inventor(s): (std): ASHTON GREGORY ; LANGDON FREDERICK MICHAEL ; RAJAGOPALAN VIJAY ; GOULAIT DAVID JOSEPH KENNETH ; MOORE JULIE LYN ; VELEZ JUAN CARLOS ; GOULAIT JOSEPH ; MOORE LYN ; LANGDON MICHAEL ; VELEZ CARLOS ; KENNETH GOULAIT DAVID JOSEPH

Inventor(s): FREDERICK MICHAEL LANGDON ; DAVID JOSEPH KENNETH GOULAIT ; VIJAY RAJAGOPALAN ; JUAN CARLOS VELEZ ; GREGORY ASHTON ; JULIE LYN MOORE ; GOULATT DAVID ; VELEZ JUAN CARLOS RAJAGOPALAN VIJAY

Agent(s): SIM AND MCBURNEY; HARNECKER; NAGAI HIROSHI; KEN K; MICHAEL P; MATTHEW P

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

12) Family number: 20526585 (US5685874A)

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Title: Disposable pull-on pant

Abstract: Pull-on garments provided with an intermittent lap seam joining the front region and the back region together at spaced apart locations to provide a breathable seam. In a preferred embodiment, the pull-on garment includes a chassis layer comprising a continuous sheet that defines a front region, a back region, and a crotch region; a first belt layer joined to the chassis layer in the front region; a second belt layer joined to the chassis layer in the back region; elastic panel members positioned between the belt layers and the chassis layers which laminate is mechanically stretched to form elastically extensible stretch laminates in both the front region and the back region in the side panels; and intermittent lap seams joining the front region to the back region at spaced apart locations so as to form the leg openings and waist openings.

Classifications:

International (IPC 8-9): A41B13/04 A41B9/12 A61F13/00 A61F13/15

A61F13/49 A61F13/494 A61F13/496 A61F13/514 A61F13/53

A61F13/56 A61F13/72 A61F5/44 (Advanced/Invention);

A61F13/15 A61F13/56 A61F5/44 (Advanced/Non-invention);

A41B13/00 A41B9/00 A61F13/15 A61F13/56

A61F5/44 (Core/Invention)

International (IPC 1-7): A41B13/04 A41B9/12 A61F13/15 A61F13/16

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A61F13/56 A61F13/72 A61F5/44

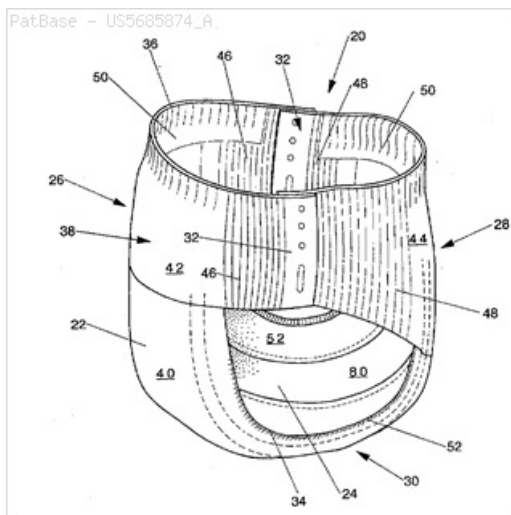
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European: A61F13/494A1A A61F13/496 A61F13/496A A61F13/49D2

A61F13/49D2B2 A61F13/49D2D2

US: 604/358 604/385.2 604/385.22 604/385.29 604/396



Family:

Publication number	Publication date	Application number	Application date
AR005981 AA	19990721	AR1997P100738	19970224
AU199721294 A1	19970910	AU19970021294	19970218
BRPI9708154 A	19990727	BR1997PI08154	19970218
CA2247027 A	19980820	CA19972247027	19970218
CA2247027 C	20031125	CA19972247027	19970218
CN1216458 A	19990512	CN19971093947	19970218
CO4780010 A1	19990526	CO19970009637	19970224
CZ9802641 A3	19990317	CZ19980002641	19970218
DE69709547 D1	20020214	DE19976009547	19970218
DE69709547 T2	20020814	DE19976009547T	19970218
EP0886509 A2	19981230	EP19970906658	19970218
EP0886509 B1	20020109	EP19970906658	19970218
ES2167713 T3	20020516	ES19970906658T	19970218
HK1016464 A1	20021108	HK19990101516	19990412
HU9901017 AB	19990728	HU19990001017	19970218
HU9901017 AC	19991129	HU19990001017	19970218
ID15981 A	19970821	ID19970000562	19970224
IL125740 A0	19990411	IL19970125740	19970218
IN00417DE1997 A	20160831	IN1997DE00417	19970220
JP11504553 T2	19990427	JP19970530275T	19970218
JP2002369842 A2	20021224	JP20020137695	20020513
JP2003033394 A2	20030204	JP20020137696	20020513
JP2004305767 A2	20041104	JP20040212220	20040720
JP3336014 B2	20021021	JP19970530275T	19970218
JP3507479 B2	20040315	JP20020137695	20020513
KR19990087168 A	19991215	KR19980706562	19970218
NO983836 A	19981020	NO19980003836	19980820
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TH28611 A	19980424	TH19971000607	19970220
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US5685874 A	19971111	US19960605605	19960222
US5931827 A	19990803	US19970967520	19971111
WO9730671 A2	19970828	WO1997US02516	19970218
WO9730671 A3	19971002	WO1997US02516	19970218
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Priority:

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Probable Assignee: PROCTOR AND GAMBLE CO

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

Assignee(s): PROCTOR AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY CINCINNATI ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTOR AND GAMBLE CO ; THE PROCTOR AND GAMBLE CO CINCINNATI OHIO ; PROCTER AND GAMBLE CO ; BUELL KENNETH BARCLAY ; CARLIN EDWARD PAUL

Inventor(s): (std): BUELL BARCLAY ; BUELL KENNETH B ; BUELL KENNETH BARCLAY ; CARLIN EDWARD P ; CARLIN EDWARD PAUL ; CARLIN PAUL ; KENNETH BARCLAY BUELL ; KENNETH B BUELL ; EDWARD PAUL CARLIN ; EDWARD P CARLIN

Inventor(s): Kenneth B. ; Edward P. ; Carlin ; Buell

Agent(s): SIM AND MCBURNEY; JIMENA ESCOBAR URIBE

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

Title: Absorbent garment with an extensible backsheet

Abstract: An absorbent garment includes an extensible backsheet having opposite side regions, a liquid permeable topsheet having opposite side portions, and a retention portion having opposite side edges and an outer surface defining an area. The retention portion is disposed between the topsheet and the backsheet with the outer surface facing the backsheet and with the opposite side portions of the backsheet and the topsheet extending beyond the side edges of the retention portion. The opposite side portions of the topsheet are attached to the opposite side portions of the backsheet on opposite sides of the retention portion. Less than 30 percent of the area of the outer surface of the retention portion is attached to the backsheet. In one preferred embodiment, the retention portion is freefloating between the backsheet and topsheet. In one preferred embodiment, the topsheet is extensible. In another preferred embodiment, less than 30 percent of an inner surface of the retention portion is attached to the topsheet. In yet another preferred embodiment, the retention portion includes at least one fold. Preferably, the backsheet, and more preferably the backsheet and topsheet, have ear portions that are secured to form leg openings. In this way, the backsheet and topsheet define the shape or plan surface area of the garment, without the need for additional body panels. A method for absorbing bodily exudates with an absorbent garment is also provided.

Classifications:

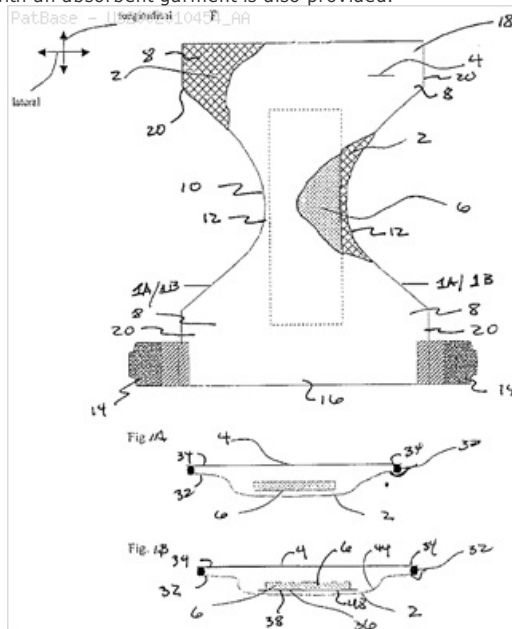
International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49
A61F13/494 A61F13/511 A61F13/514 A61F13/53 A61F13/534
A61F13/539 A61F13/56 A61F5/44 D04H3/16 (Advanced/Invention);
A61F13/15 A61F13/56 A61F5/44 (Advanced/Non-invention);
A61F13/15 A61F5/44 (Core/Invention);
A61F D04H (Subclass/Invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/539

CPC: A61F13/51464 A61F13/15699 A61F13/49001 A61F13/49426
A61F13/49466 A61F2013/49063 A61F2013/49076 A61F2013/51322
A61F2013/51429 A61F13/539 A61F13/51484 A61F13/534
A61F13/53708 A61F13/53747 A61F13/51466 A61F13/4942
A61F13/49413 A61F13/49017

European: A61F13/15M5 A61F13/494A1 A61F13/494A1A
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K61F13/49H5 K61F13/513D K61F13/514A4C

US: 604/358 604/378 604/385.01 604/385.1 604/385.22
604/385.220P 604/385.25 604/385.28



Family:

Publication number	Publication date	Application number	Application date
AR019140 AA	20011226	AR1999P102084	19990504
AR033720 AA	20040107	AR2002P101696	20020509
AU199937741 A1	20000613	AU19990037741	19990430
AU199937741 A5	20000613	AU19990037741	19990430
AU199938738 A1	19991123	AU19990038738	19990430
AU2002308695 AA	20021125	AU20020308695	20020510
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DE69925589 T2	20060427	DE19996025589T	19990430
DE69938901 D1	20080724	DE19996038901	19990430
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EP1905402 A2	20080402	EP20080000553	19990430
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TW398971 B	20000721	TW19990107114	19990518
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US6132410 A	20001017	US19990250470	19990212
US6264641 BA	20010724	US19990249434	19990212
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US7838724 BB	20101123	US20030702972	20031106
WO0030584 A1	20000602	WO1999US09407	19990430
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Priority:

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WO2002US15010	20020510	US20030702972	20031106	WO2002US15010	20031113

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): KIMBERLY CLARK CO ; KIMBERLY CLARK CORP ; KIMBERLY CLARK WORLDWIDE INC

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Inventor(s): (std): GOMPEL PAUL T VAN ; GOMPEL PAUL THEODORE VAN ; GROSS JACQUELINE A ; HUANG YUNG H ; JOHNS LARRY NEAL ; KIMBERLY CLARK WORLDWIDE INC ; FELL DAVID A ; MARTIN JACQUELINE ANN ; MORMAN MICHAEL T ; MORMAN MICHAEL T ; REYNOLDS GARY MACK ; ROESSLER THOMAS H ; VAM GOMPEL PAUL THEODORE ; VAN GOMPEL PAUL ; VAN GOMPEL PAUL T ; YUNG HSIANG HUANG ; VAN GOMPEL PAUL THEODORE ; MARTIN JACQUELINE ANN ; HUANG YUNG HSIANG ; VAN GRAHAM PAUL THEODORE

Inventor(s): YUNG H HUANG ; VAN GOMPEL THEODORE ; THE DESIGNATION OF THE INVENTOR HAS NOT YET... ; THOMAS H ROESSLER ; MORMAN MICHAEL T AND ; P T VAN COMPEL ; PAUL T VAN GOMPEL ; PAUL THEODORE VAN GOMPEL ; PAUL THEODORE VAN GRAHAM ; PAUL THEODORE VANN GOMPEL ; MICHAEL T MORMAN ; GARY MACK REYNOLDS ; LARRY NEAL JOHNS ; MARTIN ANN ; J A MARTIN ; JACQUELINE A GROSS ; JACQUELINE ANN MARTIN ; JACQUELINE ANN MARTIN ; HUANG HSIANG ; HUANG YUNG H APPLETON ; MORMAN MICHAEL KNOXVILLE ; GROSS JACQUELINE A OSHKOSH ; FELL DAVID A NEENAH ; ROESSLER THOMAS H APPLETON ; VAN GOMPEL PAUL HORTONVILLE ; DAVID A FELL

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BORDEN LADNER GERVAIS LLP; SARGENT; RAMIRO CASTRO DUQUE; ZIMMERMANN AND PARTNER PATENTANWALTE MBB; DAVIES CHRISTOPHER ROBERT; BOOTH CATHERINE LOUISE; RAMSAY LAURA ANNE; H MICHAEL

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

14) Family number: 40903602 (US2007287348A)

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Title: BIAXIALLY STRETCHABLE OUTER COVER FOR AN ABSORBENT ARTICLE

Abstract: An outer cover for use with an absorbent article having a layer of nonwoven fibrous material and optionally including a polymeric layer laminated or printed onto the layer of nonwoven fibrous material. The outer cover includes at least one plastic component and at least one elastic component in the nonwoven fibrous material and/or optional polymeric layer. The outer cover can have different structural combinations of spunbond fibers, meltblown fibers, and/or nanofibers. The combination of plastic and elastic components results in an outer cover that has favorable mechanical, physical, and aesthetic properties. The outer cover can be rendered either uniaxially or biaxially stretchable via a mechanical activation process.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49 A61F13/496 A61F13/514 A61F13/56 A61F13/64 B21D53/84 B21K25/00 B23P11/00 B32B27/12 B32B5/02 B32B5/26 D04H1/00 D04H1/42 D04H1/4374 D04H13/00 D04H3/00 D04H3/16 D04H5/00 F16B17/00 F16D1/072 F16H53/02 (Advanced/Invention); A61F13/15 A61F13/56 B21D53/00 B21K25/00 B23P11/00 B32B27/12 B32B5/22 D04H1/00 D04H1/42 D04H13/00 D04H3/00 D04H3/16 D04H5/00 F16B17/00 F16D1/06 F16H53/00 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/56

CPC: B32B5/022 B32B5/26 B32B2250/20 B32B2307/51 B32B2555/02 A61F13/51478 A61F13/51464 Y10T442/60 Y10T442/601 Y10T442/607 Y10T442/608 Y10T442/637 Y10T442/659 Y10T442/674 Y10T442/696 Y10T442/697 A61F13/74 A61F13/49 A61F13/496 A61F13/51474 A61F13/5148 A61F13/51496 A61F13/66 A61F13/5644 A61F13/64 A61F13/72 A61F13/76

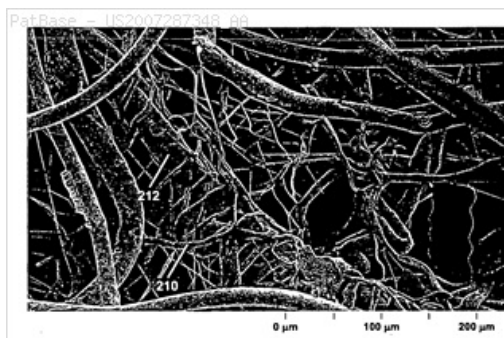
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Family:

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 ; DESAI FRED N ; DESAI FRED NAVAL ; EHRNSPERGER BRUNO JOHANNES ; LODGE RICHARD WORTHINGTON ; EHRNSPERGER BRUNO JOHANNES ; LANGDON FRED ; LANGDON FREDERICK MICHAEL ; LANGDOM FRED ; LODGE RICHARD W ; LANGDON FREDERICK M ; EHRNSPERGER BRUNO J ; LONDON FREDERICK M ; LAVON GARY DEAN ; ROE DONALD CARROLL ; MAGEE LUKE ; PROCTER AND GAMBLE ; YOUNG TERRILL ALAN ; MOONEY JOAN HELEN ; MACURA ANNA ; SAUER ANDREW JAMES ; SAURER ANDREW JAMES ; ROE DONALD C ; MAGEE LUKE R ; MACURA ANNA E ; SAUER ANDREW J ; MOONEY JOAN H ; YOUNG TERRILL A ; MAGEE LUKE ROBINSON

Assignee(s): MACURA ANNA ELIZABETH ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): ROE DONALD CARROLL ; MAGEE LUKE ; LODGE RICHARD WORTHINGTON ; EHRNSPERGER BRUNO JOHANNES ; DESAI FRED NAVAL ; LANGDON FRED ; YOUNG TERRILL ALAN ; AUTRAN JEAN PHILIPPE MARIE ; MOONEY JOAN HELEN ; LANGDON FREDERICK MICHAEL ; MACURA ANNA ; EHRNSPERGER BRUNO JOHANNES ; LANGDOM FRED ; SAUER ANDREW JAMES ; LODGE RICHARD W ; ROE DONALD C ; LANGDON FREDERICK M ; DESAI FRED N ; MAGEE LUKE R ; EHRNSPERGER BRUNO J ; LONDON FREDERICK M ; MACURA ANNA E ; SAUER ANDREW J ; MOONEY JOAN H ; AUTRAN JEAN PHILIPPE M ; YOUNG TERRILL A ; MAGEE LUKE ROBINSON ; SAURER ANDREW JAMES ; MACURA ANNA ELIZABETH ; LODGE RICHARD WORTHINGTON DESA ; MARIE AUTRAN JEAN PHILIPPE ; LAVON GARY DEAN ; FRED LANGDON ; LUKE MAGEE ; NAVAL DESAI FRED ; CARROLL ROE DONALD ; MICHAEL LANGDON FREDERICK ; JOHANNES EHRNSPERGER BRUNO ; WORTHINGTON LODGE RICHARD ; ELIZABETH MACURA ANNA ; ROBINSON MAGEE LUKE ; HELEN MOONEY JOAN ; ALAN YOUNG TERRILL ; JAMES SAUER ANDREW

Inventor(s): LODGE RICHARD WORTHINGTON DESAI FRED NAVAL ROE... ; DESAI FRED ; ROE DONALD ; LODGE RICHARD ; EHRNSPERGER BRUNO ; LANGDON FREDERICK ; LONDON FREDERICK ; AUTRAN JEAN PHILIPPE ; MOONEY JOAN ; YOUNG TERRILL ; SAUER ANDREW ; LODGE RICHARD WORTHINGTON DESAI FRED NAVAL ROE DONALD CARROLL EHRNSPERGER BRUNO JOHANNES LANGDON FRED MAGEE L ; LODGE RICHARD WORTHINGTON DESAI FRED NAVAL ROE DONALD CARROLL MACURA ANNA LANGDON FRED MAGEE LUKE Y EHRNSPERG ; EHRNSPERG ; MAGEE L ; L ; LODGE ; DESAI ; LANGDON ; EHRNSPERGER ; DONALD CARROLL ; FRED NAVAL ; FRED ; RICHARD WORTHINGTON ; ROE ; BRUNO JOHANNES ; MAGEE ; LUKE ; MACURA ; ANNA ; TERRILL ALAN YOUNG ; JEAN PHILIPPE MARIE AUTRAN ; BRUNO JOHANNES EHRNSPERGER ; ANDREW JAMES SAUER ; FRED NAVAL DESAI ; DONALD CARROLL ROE ; JOAN HELEN MOONEY ; RICHARD WORTHINGTON LODGE ; ANNA MACURA ; YOUNG TERRILL ALLAN ; LONDON FREDERICK MICHAEL

Agent(s): DIMOCK STRATTON LLP; LLOVET; KREMER VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION WEST BLDG; CHARLES R; KATHLEEN Y; JOHN G

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

15) Family number: 70160698 (US2018168874A)

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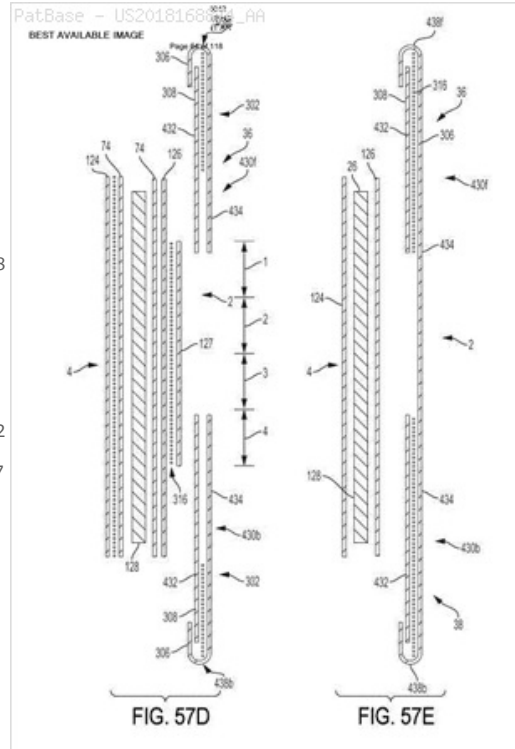
Title: LAMINATE(S) COMPRISING BEAMED ELASTICS AND ABSORBENT ARTICLE(S) COMPRISING SAID LAMINATE(S)

Abstract: The present disclosure relates to one or a combination of an absorbent article's chassis, inner leg cuffs, outer leg cuffs, ear panels, side panels, waistbands, and belts that may comprise one or more pluralities of tightly spaced (less than 4 mm, less than 3 mm, less than 2 mm, and less than 1 mm) and/or very fine (less than 300, less than 200, less than 100 dtex) and/or low strain (less than 300 percent, less than 200 percent, less than 100 percent) elastics to deliver low pressure less than 1 psi (according to the conditions defined by the Pressure-Under-Strand method below) under the elastics, while providing adequate modulus of (between about 2 gf/mm and 15 gf/mm) to make the article easy to apply and to comfortably maintain the article in place on the wearer, even with a loaded core (holding at least 50 mls of liquid), to provide for the advantages described above.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/491 A61F13/493 A61F13/494 A61F13/496 A61F13/511 A61F13/514 A61F13/551 A61F13/64 B29C65/00 B29C65/08 B29C65/18 B29C65/48 B29C65/72 B29C65/74 B32B27/12 B32B37/00 B32B37/12 B32B37/14 B32B37/22 B32B5/02 B32B5/04 B32B5/26 B32B7/12 B65H39/16 B65H49/00 B65H69/02 D01D5/08 D02G3/32 D04H3/005 D04H3/12 (Advanced/Invention)

CPC: A61F13/15585 D04H3/005 B32B27/12 D01F6/62 D01D5/08 D02G3/32 C08J2300/26 A61F13/15203 A61F13/49012 A61F13/496 A61F2013/15552 A61F2013/15406 A61F13/49011 A61F2013/15447 A61F13/49015 A61F2013/15292 A61F2013/15373 A61F2013/49093 A61F13/15601 A61F13/15739 B29L2031/4878 B29C65/48 B29C65/08 B29C66/01 A61F13/15764 A61F2013/1591 A61F2013/15918 A61F2013/15959 A61F2013/15869 A61F13/4902 A61F13/49014 A61F13/5622 B32B37/22 A61F2013/49022 A61F13/64 A61F13/55115 A61F13/493 A61F13/53 A61F13/511 A61F2013/51322 A61F13/49017 A61F2013/49025 A61F2013/49031 A61F13/49061 A61F13/491 A61F13/51464 A61F2013/49092 B29C66/8141 B29C66/344 B29C66/83411 B29C65/086 B32B37/144 B65H39/16 B32B37/0053 D04H3/12 A61F13/15 B32B5/04 B32B5/022 B32B2305/20 B32B37/12 B32B2307/51 B32B2307/726 B32B2555/02 B32B7/12 A61F2013/49026 A61F2013/49074 A61F2013/530343 A61F2013/8497 B05C1/0808 B29K2701/12 B29K2995/0046 B29K2995/0092 B29K2995/0093 B65H51/30 D01F6/04 A61F13/15593 A61F13/49019 B29C65/74 B29C65/18 B29C66/7294 B29K2713/00 B29C65/72 B29C65/083 A61F13/15699 A61F13/51478 B32B37/20 B32B2305/34

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Priority:

US20160436589P	20161220	US20170483965P	20170411	US20170553149P	20170901
US20170553171P	20170901	US20170553538P	20170901	US20170581278P	20171103
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US20170839896	20171213	WO2017US66075	20171213	US20170846341	20171219
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US20180686896P	20180619	US20180687031P	20180619	US20180115617	20180829
US20180117579	20180830				

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO ; SCHNEIDER UWE ; SEITZ BRET DARREN ; WADE SARAH MARIE ; ECKSTEIN JOSEPH ALLEN ; LAVON GARY DEAN

Inventor(s): (std): ECKSTEIN JOSEPH ALLEN ; SCHNEIDER UWE ; LAVON GARY DEAN ; SEITZ BRET DARREN ; WADE SARAH MARIE ; TAMEISHI KAZUAKI ; WISE BRANDON ELLIS ; ECKSTEIN JOSEPH ; WADE SARAH ; LAVON GARY ; SEITZ BRET ; WISE BRANDON ; LAVON GARY D ; SEITZ BRET D ; ECKSTEIN JOSEPH A ; MELENDEZ VANESSA M ; TOURNOUX MONICA R ; ROWLEY CORINNE A ; BRUNS ELIZABETH J ; ROWLEY CORINNE ; HEBBELER SARAH ; BRUNS ELIZABETH ; TOURNOUX MONICA ; MELENDEZ VANESSA

Inventor(s): MELENDEZ VANESSA MARIE ; ROWLEY CORINNE ASHLEY ; HEBBELER SARAH A ; BRUNS ELIZABETH JO

Agent(s): WILSON LUE LLP ; KREBS JAY A ; KREBS JAY A ET AL

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

16) Family number: 33465743 (US5151092A)

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Title: ABSORBENT ARTICLE WITH DYNAMIC ELASTIC WAIST FEATURE HAVING A PREDISPOSED RESILIENT FLEXURAL HINGE

Abstract: Absorbent articles having a unique elastic waist feature improving dynamic fit as well as containment characteristics. The elastic waist feature preferably comprises an interconnecting panel zone, a first flexural hinge zone joining the interconnecting panel zone with the containment assembly, an elasticized waistband, and a second flexural hinge zone joining the elasticized waistband with the interconnecting panel zone. The elasticized waistband comprises a shaping panel zone; a waistline panel zone; and a predisposed, resilient, waistband flexural hinge zone joining the shaping panel zone and the waistline panel zone. The waistband flexural hinge zone is predisposed to allow the panel zones to flexurally bend about a defined axis or zone is resilient to provide a restoring force/moment that returns the panel zones to their preceding in-use configuration, especially when the elasticized waistband has been pretensioned by a closure system. The closure system dynamically creates/maintains lateral tension through the elasticized waistband thereby allowing the elasticized waistband to more dynamically expand and contract with the motions of the wearer. The absorbent article additionally preferably comprises a pair of elasticized side panels disposed in the second waist region. The elasticized side panels preferably comprise a "zero strain" stretch laminate and an extension panel. The present invention also relates to alternative waist features comprising "an expansive tummy panel" elasticized waistband.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/56 A61F13/58

A61F5/44 B29C55/18 (Advanced/Invention);

A61F13/15 A61F5/44 (Advanced/Non-invention);

A61F (Core/Invention);

A61F (Subclass/Invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/49 A61F13/56

A61F13/58 A61F13/62 A61F5/44 B31D

CPC: A61F13/5638 A61F13/5644 A61F13/622 A61F13/49009

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A61F2013/5307 A61F2013/530802 A61F2013/53791 A61F2013/53916

B29C55/18

European: A61F13/15M2B A61F13/15M6 A61F13/49D2 A61F13/49D2B2 A61F13/49D2H A61F13/56C B29C55/18 K61F13/15F

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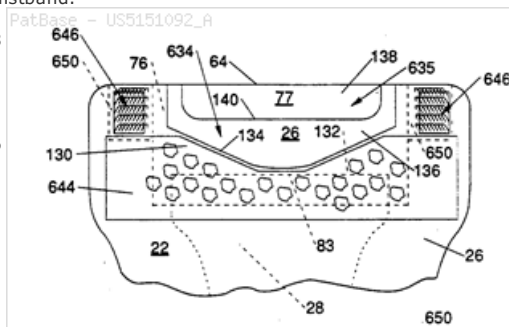
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K61F13/53P2C K61F13/53Q2E K61F13/53Q4 K61F13/53Q6 K61F13/53R K61F13/62 K61F13/84 K61F15/56

US: 604/358 604/385.1 604/385.2 604/385.3

Family:

Publication number	Publication date	Application number	Application date
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WO9222273 A3	19930218	WO1992US04773	19920608

Priority:

US19910715152 19910613 US19910750775 19910822 WO1992US04773 19920608
KR19930703830 19931211

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTOR AND GAMBLE CO ; BUELL KENNETH BUELL ; CLEAR SANDRA HINTZ ; FALCONE DANIELIA THREASE ; THE PROCTOR AND GAMBLE CO CINCINNATI OHIO US

Inventor(s): (std): BUELL KENNETH B ; CLEAR SANDRA H ; FALCONE DANIELIA T ; HINTZ CLEAR SANDRA ; THREASE FALCONE DANIELIA ; BUELL KENNETH BUELL ; CLEAR SANDRA HINTZ ; FALCONE DANIELIA THREASE ; BUELL KENNETH BARCLAY ; FALCONE DANIELIA THREASE ; BUELL KENNETHBARCLAY ; CLEAR SANDRAHINTZ ; FALCONE DANIELIATHREASE ; FALCONE DANIELIA ; CLEAR SANDRA ; BUELL KENNETH ; KENNETH BARCLAY BUELL ; SANDRA HINTZ CLEAR ; DANIELIA THREASE FALCONE

Inventor(s): BUELL KENNETH BARCLAY CINCINNATI OH 45215 US ; FALCONE DANIELIA THREASE CINCINNATI OH 45223 US ; CLEAR SANDRA HINTZ MAINEVILLE OH 45039 US

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

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG

17) Family number: 33088755 (US2008311338A)

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Title: EXTENSIBLE SIDE PANEL

Abstract: An extensible side panel (10) for use in disposable articles such as a diaper (1), said panel comprising a first longitudinal side edge (11), a second longitudinal side edge (12), a first top lateral edge (13) and a second bottom lateral edge (14), the side panel comprising a first layer (30) of an extensible material (22) having a top lateral edge (30a) and a second layer (31) of an extensible material (22) having a top lateral edge (31a), said second layer (31) being superimposed onto said first layer (30) to provide at least one extensibly reinforced region (15), the top lateral edge or edges (31a) of the second layer (31) being arranged essentially parallel to the top lateral edge (30a) of the first (lower) layer of the side panel (10).

Classifications:

International (IPC 8-9): A61F13/15 A61F13/496 B32B3/02 B32B3/06 B32B38/00 (Advanced/Invention); A61F13/00 A61F13/15 B32B3/02 B32B3/06 B32B38/00 E04H3/12 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/56 E04H 3/12 E04H03/12

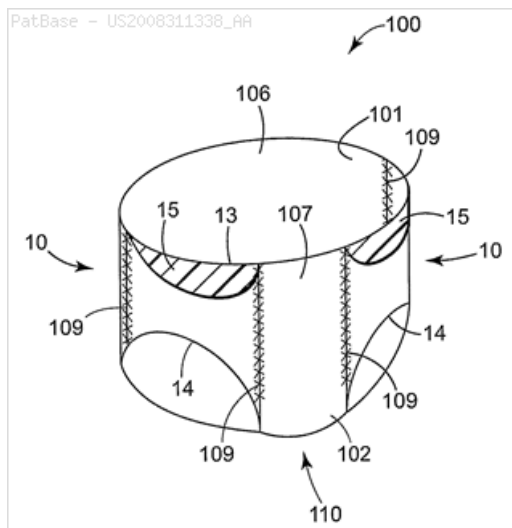
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European: A61F13/15M6F A61F13/15M7 A61F13/49D2D

A61F13/49D2H

US: 156/227 156/227S 428/192 428/192S 428/99 428/99P



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EP2582262 A4	20140409	EP20110798693	20110620
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Priority:

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Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; WOOD LEIGH E ; PARISEAU TMOOTHY P ; PARISEAU TIMOTHY P ; URBAN ANDREAS ; HAUSCHILDT VOLKER

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

Inventor(s): (std): LEIGH E WOOD ; TIMOTHY P PARISEAU ; VOLKER HAUSCHILDT ; ANDREAS URBAN ; WOOD LEIGH ; PARISEAU TMOOTHY P ; PARISEAU TIMOTHY P ; HAUSCHILDT VOLKER ; URBAN ANDREAS ; WOOD LEIGH E ; PARISEAU TIMOTHY PAUL ; WOOD LEIGH EARL

Inventor(s): WOOD LEIGH E SAINT PAUL ; PARISEAU TMOOTHY P SAINT PAUL

Agent(s): VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; DEL VALLE SONIA; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; EKREM SOYLU; GROSS KATHLEEN B 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

19) Family number: 47810802 (US2010307668A)

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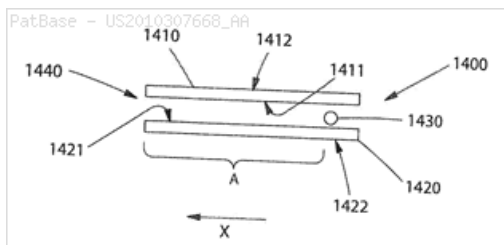
Title: METHOD FOR MAINTAINING A FASTENER IN A FOLDED CONFIGURATION

Abstract: A method for folding a fastener during a high speed manufacturing process and maintaining the fastener in a folded configuration throughout the high speed manufacturing process. The method includes obtaining an article that has a foldable fastener and moving the article in the machine direction during the high speed manufacturing process. The foldable fastener has first and second opposing surfaces, a web and at least one engaging member joined to the web. The method includes applying a frangible bonding agent to a first portion of the first surface of the fastening system; folding the fastening system such that the frangible bonding agent contacts a second portion of the first surface of the fastening system; and allowing the frangible bonding agent to cool at a temperature of less than 60 degrees centigrade

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/511
A61F13/513 A61F13/56 A61F13/58 A61F13/62 A61L15/58 A61L15/60

B29C53/02 B32B37/10 B32B37/12 B32B37/14 B32B38/00
 B32B38/18 (Advanced/Invention);
 A61F13/51 A61F13/515 A61F13/58 B32B37/12
 B32B38/00 (Advanced/Non-invention)
CPC: B32B38/18 A61F13/15756 B32B37/1036 B32B37/1292
 B32B37/144 B32B38/0004 B32B2037/1215 B32B2305/20
 B32B2309/02 B32B2309/10 B32B2310/024 B32B2310/0843
 B32B2555/02 Y10T156/1049 Y10T156/1051 B32B37/12 B32B37/10
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European: A61F13/15M7 A61F13/56C A61F13/58B A61F13/62 B32B37/10C2 B32B37/14B L32B305/20 L32B309/02
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US: 1/1 156/226 156/227 156/291 156/66 604/365 604/365P 604/385.11 604/387 604/389 604/391 604/394 604/396



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): KLINE MARK JAMES ; LANDGREBE JAMES DAVID ; LANGE STEPHEN JOSEPH ; PROCTER AND GAMBLE ; REZAI EBRAHIM ; SUE SHUNKETSU

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

Inventor(s): (std): RAYCHECK JEROMY THOMAS ; TAO JAY ; SUE SHUNKETSU ; KLINE MARK JAMES ; REZAI EBRAHIM ; LANDGREBE JAMES DAVID ; LANGE STEPHEN JOSEPH

Agent(s): HEIDE UTE; LHUILLIER FLORENT CHARLES; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; KATHLEEN Y; JOHN G; JAMES T; CARTER KATHLEEN Y; BEST CHRISTIAN M; 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

20) Family number: 31806862 (WO9402094A1)

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Title: STRETCHABLE ABSORBENT STRUCTURE

Abstract: The present invention relates to a simple, cost-effective, stretchable, superabsorbent material-containing absorbent structure that provides the superabsorbent material particles therein with improved liquid holding capacity. The stretchable absorbent structure can be used in absorbent articles such as diapers, sanitary napkins, panty liners, and incontinence pads. The stretchable absorbent structure comprises a stretchable liquid impervious barrier layer (40) and an absorbent nonwoven component (43) that is bonded to the barrier layer when the barrier layer is stretched at least partially toward its stretched condition, and superabsorbent, hydrogel-forming material (41) deposited on or distributed within the nonwoven component.

Classifications:

International (IPC 8-9): A41F1/00 A61F13/00 A61F13/15 A61F13/42
 A61F13/472 A61F13/49 A61F13/514 A61F13/53 A61F13/539
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A61F5/44 (Advanced/Invention);

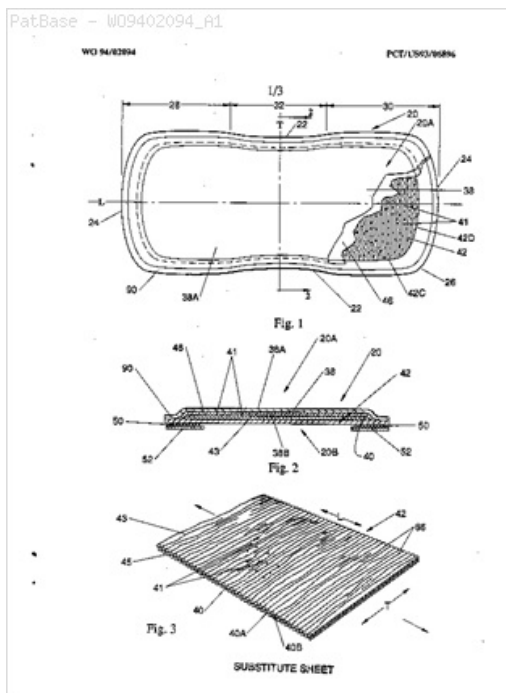
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International (IPC 1-7): A61F13/00 A61F13/15 A61F13/46

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Priority:

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Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; THE PROCTER AND GAMBLE CO CINCINNATI ; PROCTER AND GAMBLE FAR EAST INC ; PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY ; HINES LETHA MARGIE ; KAWAI NORIKO ; LAVASH BRUCE WILLIAM ; MAYER KATHERINE LOUISE ; OLSEN ROBB ERIC ; OSBORN THOMAS WARD III

Inventor(s): (std): THOMAS WARD III OSBORN ; ROBB ERIC OLSEN ; BRUCE WILLIAM LAVASH ; HINES LETHA MARGIE ; WARD OSBORN THOMAS III ; HINES LETHA M ; MAYER KATHERINE L ; OLSEN ROBB E ; OSBORN THOMAS W III ; LAVASH BRUCE W ; CHAPPELL CHARLES WILBURN ; SUGAHARA KAZUKO ; CHARRIER JACQUELINE WATSON ; CHAPPELL CHARLES WILBUR ; OSBORN THOMAS ; SCHMITZ DEBORAH ; REDWINE NONA ; OSBORN III THOMAS WARD ; KAWAI NORIKO VIEW COURT ASHIYA ; LAVASH B W ; HINES L W ; OSBORN T W ; OSBORN THOMAS WARD ; MAYER KATHERINE ; LAVASH BRUCE ; OLSEN ROBB ; HINES LETHA ; KAWAI NORIKO ; HINES LETHA MARGIE ; MAYER KATHERINE LOUISE ; OLSEN ROBB ERIC ; LAVASH BRUCE WILLIAM ; SCHMITZ DEBORAH CATHERINE ; REDWINE NONA JANE ; SCHMITZ BEBORAH CATHERINE ; OSBORN THOMAS WARD III

Inventor(s): B W LAVASH ; L W HINES ; T W OSBORN ; BW LAVASH ; LW HINES ; TW OSBORN ; NONA JANE

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

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA VN

21) Family number: 29789864 (US5569234A)

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Title: Disposable pull-on pant

Abstract: Pull-on garments provided with a continuous belt in the front region and the back region to distribute the forces generated during use in order to better fit the pull-on garment on the wearer. In a preferred embodiment, the pull-on garment comprises a chassis layer comprising a continuous sheet that defines a front region, a back region, and a crotch region; a first belt layer joined to the chassis layer in the front region; a second belt layer joined to the chassis layer in the back region; elastic panel members positioned between the belt layers and the chassis layers which laminate is mechanically stretched to form elastically extensible stretch laminates in both the front region and the back region in the side panels; and seams joining the front region to the back region so as to form the leg openings and waist openings. The continuous chassis layer and belt layers thus form the continuous belt of the pull-on garment. Because the belt layers extend continuously laterally across the waist region and do not cover the entire crotch region, and because the chassis layer is thus exposed in the crotch region, the pull-on garment has a unique aesthetic feature which consumers perceive as providing a cloth-like feel in the waist but the containment characteristics in the crotch.

Classifications:

International (IPC 8-9): A41B13/04 A41B9/00 A61F13/15 A61F13/49 A61F13/496 A61F13/514 A61F13/56 A61F5/44 (Advanced/Invention); A61F13/15 A61F5/44 (Advanced/Non-invention)

International (IPC 1-7): A41B13/04 A41B9/00 A61F13/15 A61F13/46 A61F13/49 A61F13/496 A61F13/514 A61F13/56 A61F5/46 A61F5/44

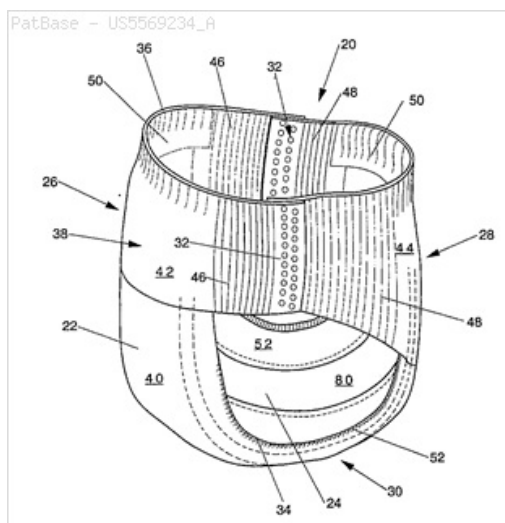
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US: 604/358 604/367 604/385.2 604/385.22 604/385.24 604/385.29 604/393 604/394 604/396



Family:

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ASHTON GREGORY ; PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTOR AND GAMBLE COMPANY ; PUROKUTAA ANDO GYANBURU CO ZA ; PROCTER AND GAMBLE CO ; BUELL KENNETH BARCLAY ; CARLIN EDWARD PAUL

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Inventor(s): BYUURU KENISU BAAKUREI ; KAARIN EDOWAADO HOORU

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

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

22) Family number: 40485877 (US6478785B)

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Title: Disposable pant-type diaper having enhanced extensibility around waist opening

Abstract: A disposable garment having enhanced extensibility around waist opening is disclosed. The disposable garment has a front region, a back region and a crotch region between the front region and the back region. The disposable garment comprises a chassis and seams. The chassis comprises a topsheet, a backsheet joined with the topsheet, and an absorbent core interposed between the topsheet and the backsheet. The chassis has a central panel having side edges and a waist edge, and an ear panel extending laterally outwardly from each side edge of the central panel in the front region and the back region. The ear panel is rendered extensible to form an extensible ear. The extensible ear has a higher end edge, a lower end edge, an inner side edge, and an outer side edge. The outer side edge is non-parallel to the inner side edge, and is non-parallel to a longitudinal center line of the garment, and projects laterally outwardly proximate the higher end edge. A lateral width of the extensible ear between the inner side edge and the outer side edge is greater proximate the higher end edge than proximate the lower end edge. The seams join each ear panel along the outer side edge to a corresponding portion in the opposite region of the disposable garment so as to form one waist opening and two leg openings. The seam is non-parallel to the longitudinal center line.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/56 A61F13/72

A61F5/44 (Advanced/Invention);

A61F13/15 A61F13/56 A61F5/44 (Advanced/Non-invention);

A61F13/15 A61F13/56 A61F5/44 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/49 A61F13/56 A61F13/72

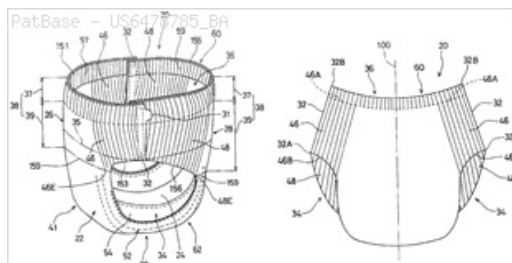
A61F5/44

CPC: A61F13/496 A61F2013/49022 A61F2013/49047 A61F13/49011 A61F13/49014

European: A61F13/496 A61F13/49D2B A61F13/49D2D

K61F13/49D2H1 K61F13/49D3A2

US: 604/385.01 604/385.24 604/392



Family:

Publication number	Publication date	Application number	Application date
AR019849 AA	20020320	AR1999P102541	19990528
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TH40498 A	20000928	TH19991001784	19990525
TR200003486 T2	20010621	TR20000003486T	19980528
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ZA9903569 A	19991129	ZA19990003569	19990526

Priority:

TR19980003486T 19980528 WO1998US10849 19980528 US20000700563 20001116

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ASHTON GREGORY ; FUKUDA EIRO ; PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO

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

Inventor(s): (std): ASHTON GREGORY ; FUKUDA EIRO ; GREGORY ASHTON ; EIRO FUKUDA

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; HARNECKER

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

23) Family number: 40485878 (US2003120240A)

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Title: DISPOSABLE PANT-TYPE DIAPER HAVING IMPROVED PROTECTION AGAINST RED MARKING

Abstract: The present invention is directed to a disposable pull-on garment having a longitudinal center line, a front region, a back region and a crotch region between the front region and the back region. The disposable pull-on garment includes a chassis provided in the front, back and crotch regions. The chassis has edge lines in the front and back regions and includes a liquid pervious topsheet, a liquid impervious backsheet associated with the topsheet, and an absorbent core disposed between the topsheet and the backsheet. The disposable pull-on garment further includes at least one pair of extensible ear panels extending laterally outward from the chassis in the front or back region. Each of the ear panels has an outermost edge line. Each of the ear panels are joined to the chassis along the corresponding edge lines to form a seam, thereby forming two leg openings and a waist opening. At least one of the ear panel has, along the seam, a substantially bonded portion starting from the waist opening and an unbonded portion starting from the leg opening. The ratio in length of the unbonded portion to the substantially bonded portion is between about 4:96 and about 20:80. The present invention is also directed to a method for making such a disposable pull-on garment.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49

A61F13/496 A61F13/56 A61F5/44 (Advanced/Invention);

A61F13/15 A61F5/44 (Advanced/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/496 A61F5/44

CPC: A61F13/496 A61F2013/49047 A61F2013/49092 A61F13/565

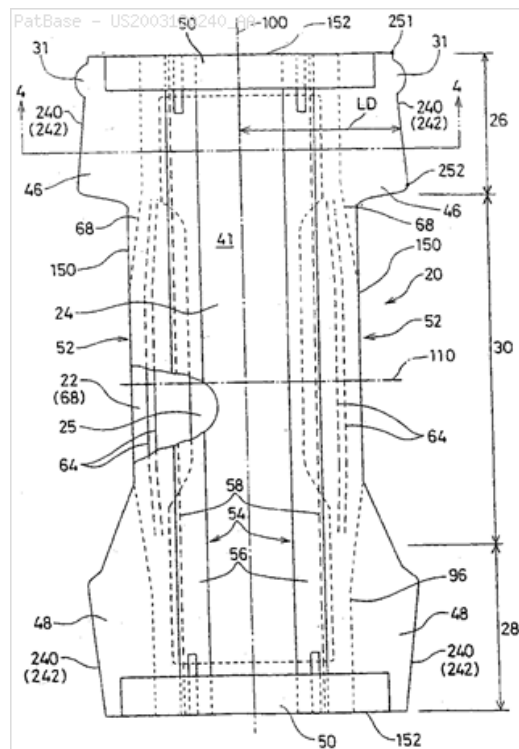
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European: A61F13/496

US: 1/1 2/400 604/385.01 604/385.01P 604/385.11 604/385.16

604/385.29 604/394 604/396



Family:

Publication number	Publication date	Application number	Application date
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US2015313772 AA	20151105	US20150799665	20150715
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ZA9903566 A	19991129	ZA19990003566	19990526

Priority:

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US20150799665	20150715	US20150799691	20150715	US20150865344	20150925

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ASHTON GREGORY ; BUELL KENNETH BARCLAY ; HAWKINS CRAIG ANDREW ; KLINE MARK JAMES ; PROCTER AND GAMBLE ; VINNAGE WILLIAM ROBERT JR ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; VINNAGE JR WILLIAM ROBERT

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

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Agent(s): SIM AND MCBURNEY; HIRSCH UWE THOMAS M H; CHARLES R; CHRISTIAN M

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

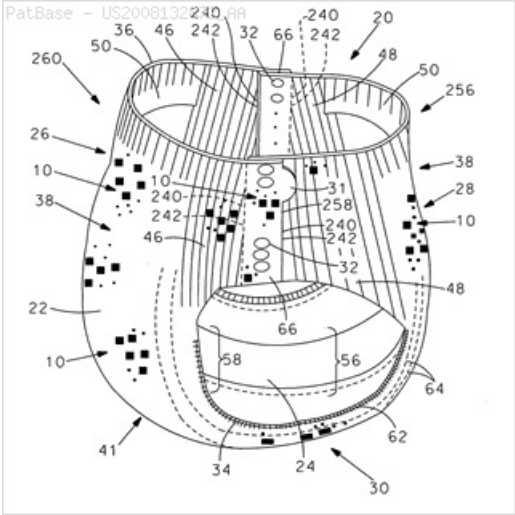
24) Family number: 41884911 (US2008132872A) © PatBase

Title: ABSORBENT ARTICLES COMPRISING GRAPHICS

Abstract: An absorbent article may comprise a first zone comprising graphics and a second zone comprising graphics, wherein the first and second zones have different elastic properties. Further, the absorbent article may comprise a first absorbent article component and a second absorbent article component having substantially different elastic properties, wherein the first absorbent article component comprises an elastomer. Additionally, the absorbent article may comprise a third absorbent article component overlapping the first and second absorbent article components, wherein the third absorbent article component comprises graphics on at least the portions which overlap the first and second absorbent article components.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49 A61F13/496 A61F13/514 A61F13/84 A61L15/16 B21D39/00 B23P11/00 B23P25/00 B32B37/00 B32B38/04 B32B38/14 (Advanced/Invention); A61F13/72 A61F13/84 (Advanced/Non-invention); A61F13/15 B23P11/00 (Core/Invention)
CPC: A61F13/15699 A61F13/496 A61F13/51464 A61F13/51496 A61F2013/8497 A61F13/49011 A61F13/72 A61F13/15804 Y10T29/49826 Y10T29/49885 A61F13/49014
European: A61F13/15M5 A61F13/496 A61F13/49D2D A61F13/514B2 A61F13/514D K61F13/84G
US: 156/277 156/277S 29/428 29/428S 29/458 29/458 29/458 29/458P 493/320 604/368 604/368P 604/385.01 604/385.24 604/385.240P 604/385.240S 604/396



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): ROE DONALD CARROLL ; SAUER ANDREW JAMES ; TRENNPOHL MICHAEL DALE ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COONE PROCTER & GAMBLE PLAZACINCINNATIOH45202US ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): JAMES SAUER ANDREW ; DALE TRENNPOHL MICHAEL ; CARROLL ROE DONALD ; TRENNPOHL MICHAEL DALE ; SAUER ANDREW JAMES ; ROE DONALD CARROLL

Inventor(s): SAUER ANDREW JAMESUS ; TRENNPOHL MICHAEL DALEUS ; ROE DONALD CARROLLUS ; MICHAEL DALE TRENNPOHL ; ANDREW JAMES SAUER ; DONALD CARROLL ROE

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; KREMER VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION WEST BLDG; THIBAUT; RICHARD L; ALEXANDER RICHARD L; THE PROCTER AND GAMBLE COMPANY

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

25) Family number: 30149960 (US5358500A)

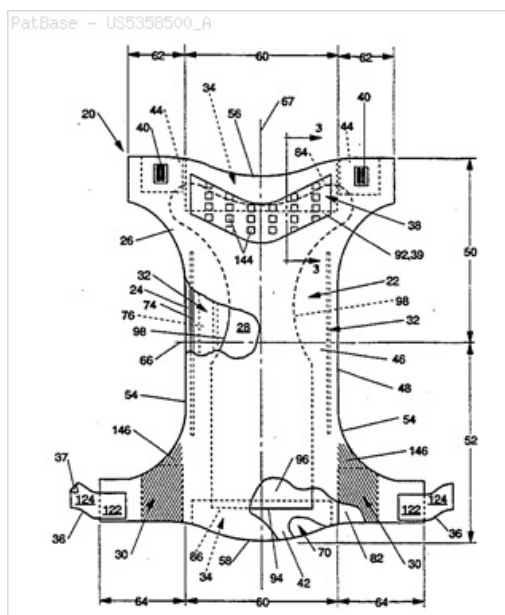
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Title: Absorbent articles providing sustained dynamic fit

Abstract: Absorbent articles such as diapers, incontinent briefs, training pants, diaper holders and liners, feminine hygiene garments, and the like, designed to provide sustained dynamic fit about the wearer during use as well as to improve the containment of body exudates and wearer comfort/mobility. Such an absorbent article has an absorbent core preferably designed to fit within the low motion zone of the wearer so that dynamic forces imparted by movements of the wearer on the absorbent core are minimized. The absorbent article is also provided with a closure system for anchoring the absorbent article on the wearer to sustain the dynamic fit of the absorbent article throughout wearing. The closure system is designed so that a primary line of tension, fitting at an angle to the body, is formed to secure the absorbent article on a wearer. The absorbent article preferably further comprises elastic features for fitting about the extremities of the wearer, including elastic waist features, elastic leg features, and elastic side panels, that allow freedom of movement for the wearer as well as maintenance of forces about the body to sustain the fit of the absorbent article. Preferred containment assembly (chassis) designs are also provided.

Classifications:

International (IPC 8-9): A41B13/04 A61F13/15 A61F13/49 A61F13/496 A61F13/56 A61F13/58 A61F13/66 A61F5/44 H04L29/02 H04M1/00 H04W88/06 (Advanced/Invention); A61F13/15 A61F13/56 A61F5/44 (Advanced/Non-invention); A41B13/00 A61F13/15 A61F13/56 A61F5/44 H04L29/02 H04M1/00 H04W88/00 (Core/Invention); A61F13/15 A61F13/56 (Core/Non-invention)
International (IPC 1-7): A41B13/04 A61F13/15 A61F13/20 A61F13/49 A61F13/496 A61F13/56 A61F13/58 A61F13/62 A61F13/66 A61F5/44
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US: 604/358 604/373 604/385.1 604/385.2 604/385.21 604/385.22 604/385.24 604/385.29 604/386 604/389 604/390 604/391 604/393 604/394 604/396 604/402



Family:

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