

Search query (3): [SP]: brief description of figures[0066] fig. 1 is a photograph showing a dark-skinned mannequin from the front wearing an article in the form of pants of the prior art[0067] fig. 2 is a photograph showing a dark-skinned mannequin from the front wearing an article in the form of pants in accordance with an embodiment described here[0068] fig. 3 is an article in the form of pants, in which the pants are present in a non-assembled state and are seen from the side that faces the wearer during use[0069] fig. 4 is a section along the line x1 through the article in fig. 3 [0070] fig. 5 is an article in the form of pants in which the article is present in an assembled state

Results: 13

Search history

Search SFT=(absorbent article and low-opacity) and IC=(A61F13/496) (Results 1)

1:

Search 2: [SP]: 1. an absorbent article (1) in the form of pants, such as nappy pants, sanitary pants or incontinence pants comprising an absorbent core (3) having two longitudinal edges (14, 14') and two transverse edges (15, 15'), a pant part (4), wherein said pant part (4) comprises a covering layer (5), a front section (6), a back section (7) and an intermediate crotch section (8), wherein the front and back sections (6, 7) are connected to one another along two opposing longitudinal lateral edges (9) to form a waist opening (10) and a pair of leg openings (11), said absorbent core (3) is arranged at least in the crotch section (8) and connected to the covering layer (5) on the side of the covering layer (5) that is intended to face the wearer, said pant part (4) comprises at least one low-opacity area (16), which has an opacity that is lower than 50 percent, furthermore the article (1) comprises a liquid-tight coloured barrier layer (12) placed between said absorbent core (3) and covering layer (5), characterised by that the difference between two colours in the colour space $\text{cie } l^*a^*b^*$, which is characterised by a delta e-value (ΔE^*_{ab}) in a comparison between the low-opacity area/areas (16) of the pant part (4) over and outside the area of the barrier layer's (12) extension is less than 5 when said low-opacity area for the pant part has an opacity of 40-50 percent 4 when said low-opacity area for the pant part has an opacity of 30-40 percent 3 when said low-opacity area for the pant part has an opacity of 20-30 percent 2 when said low-opacity area for the pant part has an opacity of 0-20 percent when the absorbent article (1) is placed with the side that is intended to face the wearer against a reference surface having a predetermined colour, in accordance with the $\text{cie } l^*a^*b^*$ standard method. 2. absorbent article in the form of pants according to claim 1, characterised by that the barrier layer (12) has an l^* value of 30.1-67.9, a^* value of 5.5-7.0 and b^* value of 7.5-20.3 in accordance with the $\text{cie } l^*a^*b^*$ standard method. 3. absorbent article in the form of pants according to claim 1, characterised by that the extension of the barrier layer (12) coincides on the whole with the extension of the absorbent core (3). 4. absorbent article in the form of pants according to claim 1, characterised by that the low-opacity area (16) partly constitutes the area of the extension of the barrier layer (12) and the area outside the core's (3) edges, which adjoin around the extension of the core (3). 5. absorbent article in the form of pants according to claim 1, characterised by that the covering layer (5) is formed of an elastic nonwoven. 6. absorbent article in the form of pants according to claim 1, characterised by that the covering layer (5) is formed of an elastic laminate consisting of at least one plastic layer and a textile-like layer. 7. absorbent article in the form of pants according to claim 1, characterised by that the covering layer (5) is formed of two layers with a plurality of intermediate elastic elements (17). 8. absorbent article in the form of pants according to claim 1, characterised by that the core (3) comprises a surface layer (13) facing towards the wearer. 9. absorbent article in the form of pants according to claim 8, characterised by that the surface layer (13) corresponds to the extension of the barrier layer (12). 10. absorbent article in the form of pants according to claim 9, characterised by that the surface layer (13) and barrier layer (12) are connected to one another, for example, by gluing, sewing, or welding using heat or ultrasound. 11. absorbent article in the form of pants according to claim 1, characterised by that the pant part (4) has a base colour that is selected from white, black, red, blue, violet, orange, yellow, green or indigo, as well as any other hue or mix thereof. 12. absorbent article in the form of pants according to claim 1, characterised by that the pant part (4) has a graphic pattern (18). 13. absorbent article in the form of pants according to claim 1, characterised by that the reference surface is formed of a surface that has the following l^* , a^* , b^* value: $l^*=67.9$ $a^*=5.5$ and $b^*=16.4$ or $l^*=52.6$ $a^*=7.0$ and $b^*=20.3$ or $l^*=30.1$ $a^*=5.8$ and $b^*=4.5$. 14. a packaging containing a plurality of absorbent articles according to any of the preceding claims, characterised by that the packaging has a code for skin tone. 15. packaging according to claim 14, characterised by that the code is formed of a colour shade, which corresponds to the colour of the reference skin tone, a colour scale in colour in which the reference skin tone is depicted together with the surrounding skin tones, or it is stated in words which skin tone the article is designed for: for example, a light skin tone, yellow/red skin tone or dark skin tone, or a drawn figure in the shape of a person having the intended skin tone that the article is intended to match. (Results 0)

Search 3: [SP]: brief description of figures[0066] fig. 1 is a photograph showing a dark-skinned mannequin from the front wearing an article in the form of pants of the prior art[0067] fig. 2 is a photograph showing a dark-skinned mannequin from the front wearing an article in the form of pants in accordance with an embodiment described here[0068] fig. 3 is an article in the form of pants, in which the pants are present in a non-assembled state and are seen from the side that faces the wearer during use[0069] fig. 4 is a section along the line x1 through the article in fig. 3 [0070] fig. 5 is an article in the form of pants in which the article is present in an assembled state (Results 13)

1) Family number: 34406069 (JP2007050145A)

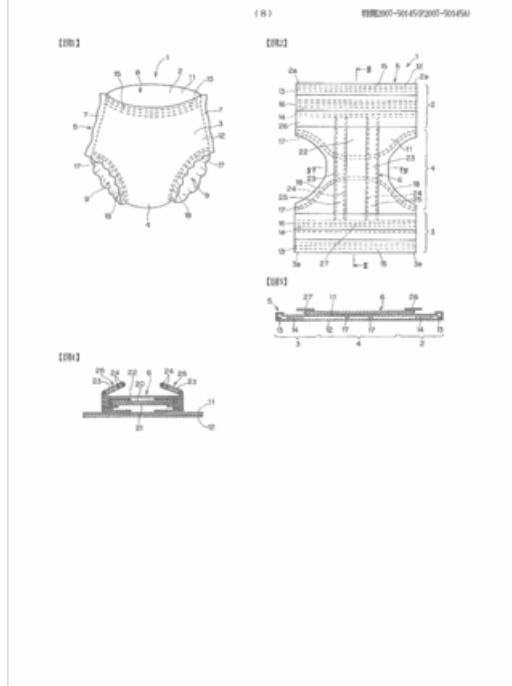
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Title: DISPOSABLE ABSORBENT ARTICLE

Abstract: PROBLEM TO BE SOLVED: To provide a disposable absorbent article having a simple constitution, hard to visually confirm the contour of its absorbent from outside and inconspicuous to wear. SOLUTION: The disposable absorbent article is equipped with an outer layer sheet 12 composed of a nonwoven fabric having a back part, an abdominal part and the crotch part provided so as to be connected to them, the inner layer sheet 11 superposed on the inner surface of the outer layer sheet 12, the liquid-absorbing mat body 20 provided over the back part the crotch part and the abdominal part, the liquid impermeable back sheet 21 for covering the outer surface of the liquid-absorbing mat 20 and a liquid-permeable top sheet 22 for covering the skin surface side of the liquid-absorbing mat member 20. The outer layer sheet 12 and the inner layer sheet 11 are colored or printed with a skin color or a color approximate thereto. The back sheet 21 is also colored or printed with the skin color or a color approximate thereto in color density degree making the contour of the liquid-absorbing mat body 20 inconspicuous.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/494
A61F13/511 A61F13/514 (Advanced/Invention);
A61F5/44 (Advanced/Non-invention);
A61F13/15 (Core/Invention);
A61F5/44 (Core/Non-invention)

**Family:**

Publication number	Publication date	Application number	Application date
JP2007050145 A2	20070301	JP20050238272	20050819

Priority:

JP20050238272 20050819

Probable Assignee:

LIVEDO CORP

Assignee(s): (std):

LIVEDO CORP

Assignee(s):

RIBUDOU INC CORP

Inventor(s): (std):

TAKAHASHI YUUKI

2) Family number: 31552090 (US2007010776A)

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Title: COSMETIC BANDAGE

Abstract: A cosmetic bandage (1) and method for its manufacture for external application to a wound, injury, blemish or other disfigurement of the human skin to help facilitate healing and for providing cosmetic benefits. The bandage (1) preferably includes a transparent backing layer (2) and an adhesive layer (5) applied to the first side (10) of the backing layer (2). An absorbent pad (3) is attached to a portion of the first side (10) of the backing layer (2). The topside (20) of the absorbent pad (3) is visible through the transparent backing layer (2). The top side (20) of the absorbent pad (3) is coated or embedded with one or more nontoxic pigment compositions which are derma or skin matching, having a melanin likeness in appearance so as to substantially match human skin tones and colors. A method for manufacturing a cosmetic bandage (1) is useful in the external application.

Classifications:**International (IPC 8-9):** A61F13/00 A61F13/02

A61F15/00 (Advanced/Invention);

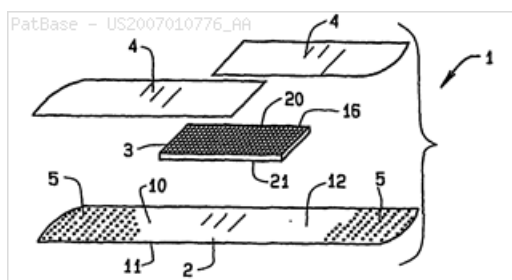
A61F13/00 (Advanced/Non-invention)

International (IPC 1-7): A61F13/00 A61M5/158**CPC:** A61F13/0203 A61F2013/00153 A61F2013/00182

A61F2013/00378 A61F2013/00561 A61F2013/00846

European: A61F13/00 A61F13/02B K61F13/00J5 K61F13/00J9

K61F13/00L1A4 K61F13/00L2E5 K61F13/00L9

US: 602/54 602/54P**Family:**

Publication number	Publication date	Application number	Application date
EP1660157 A2	20060531	EP20040780419	20040806
EP1660157 A4	20090415	EP20040780419	20040806
MXPA06002558 A1	20060620	MX2006PA02558	20040806
US2007010776 AA	20070111	US20040568131	20040806
WO05014085 A1	20050217	WO2004US25579	20040806
WO05014085 A2	20050217	WO2004US25579	20040806
WO05014085 A3	20051124	WO2004US25579	20040806
WO05014085 C2	20050428	WO2004US25579	20040806

Priority:

US20030493169P 20030807

US20040568131 20040806

WO2004US25579 20040806

US20060568131 20060721

Probable Assignee: PHILIPP TIMOTHY P

3) Family number: 32587168 (US2006025737A)

Abstract: A disposable absorbent article comprising a front waist region, a rear waist region, and a crotch region, wherein said absorbent article further comprises at least three discrete elements each comprising at least one visible surface; wherein at least three or more of the visible surfaces comprise an imparted color wherein said colors are color matched. Color matching exists when said colors are contained within a specified CIELab color space volume, have a specified hue difference, or total color difference.

US: 1/1 604/385.01



Publication number	Publication date	Application number	Application date
CA2575600 AA	20070129	CA20052575600	20050729
CA2575600 C	20110510	CA20052575600	20050729
CN101022772 A	20070822	CN200580025861	20050729
CN101022772 B	20101208	CN200580025861	20050729
EP1778148 A2	20070502	EP20050777381	20050729
JP2008507386 T2	20080313	JP20070523843T	20050729
MX2007001179 A1	20081024	MX20070001179	20050729
US2006025737 AA	20060202	US20040903004	20040730
US2016074235 AA	20160317	US20150950629	20151124
US2016074236 AA	20160317	US20150950652	20151124
US2016338878 AA	20161124	US20160195054	20160628
US2017312138 AA	20171102	US20170653909	20170719
US2019151161 AA	20190523	US20180224905	20181219
US9226857 BB	20160105	US20040903004	20040730
US9408753 BB	20160809	US20150950629	20151124
US9724244 BB	20170808	US20160195054	20160628
US9737441 BB	20170822	US20150950652	20151124
US10195089 BB	20190205	US20170653909	20170719
WO06015207 A2	20060209	WO2005US26962	20050729

US20040903004	20040730	WO2005US26962	20050729	US20150950629	20151124
US20150950652	20151124	US20160195054	20160628	US20170653909	20170719
US20180224905	20181219				

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; ABBEY A; RICHARD L; ERIC T; SARAH M; HAGERTY ANDREW J; DECRISTOFARO SARAH M; ALEXANDER RICHARD L

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

4) Family number: 49741310 (US2013012900A)

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Title: ABSORBENT ARTICLE

Abstract: An absorbent article that includes an absorber capable of absorbing a body fluid of a user, a liquid-permeable sheet covering one surface of the absorber and allowing a body fluid of the user to pass through, and a liquid-impermeable sheet covering another surface of the absorber and disallowing a body fluid of the user to pass through, wherein the color of the liquid-permeable sheet has an Lss value of 88 or more, an ass value of 0 to 0.3 and a bss value of -8 to 0 in the Lssassbss color system, and the color of the absorber has a bss value of 1 to 5 and an Lss value of 93 or more in the Lssassbss color system.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/511

A61F13/53 A61F13/539 (Advanced/Invention);

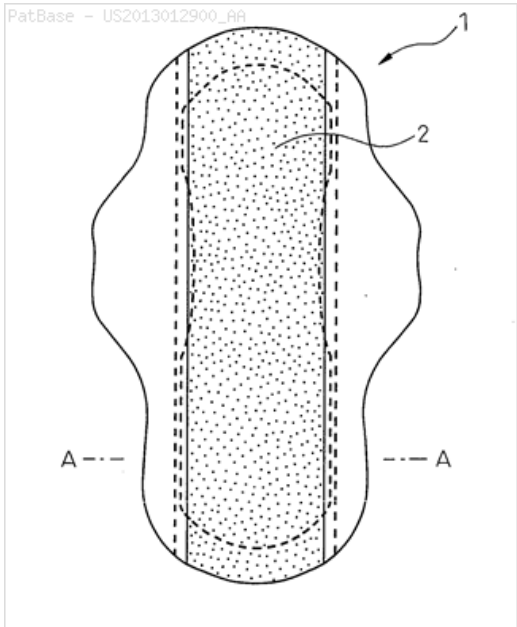
A61F13/84 (Advanced/Non-invention)

International (IPC 1-7): A61F13/15

CPC: A61F13/15 A61F2013/15243 A61F2013/8497

European: A61F13/15 K61F13/15J3

US: 1/1 604/367



Family:

Publication number	Publication date	Application number	Application date
AR080812 AA	20120509	AR2011P101009	20110328
DE602011031241 D1	20161124	DE201160031241T	20110317
EP2554146 A1	20130206	EP20110765431	20110317
EP2554146 A4	20140521	EP20110765431	20110317
EP2554146 B1	20161012	EP20110765431	20110317
JP2011212211 A2	20111027	JP20100082893	20100331
JP5709398 B2	20150430	JP20100082893	20100331
US2013012900 AA	20130110	US20110637824	20110317
US9125769 BB	20150908	US20110637824	20110317
WO11125530 A1	20111013	WO2011JP57268	20110317

Priority:

JP20100082893 20100331 EP20110765431 20110317 WO2011JP57268 20110317

Probable Assignee: UNICHARM CORP

Assignee(s): (std): MIZUTANI SATOSHI ; OBA TORU ; UDA MASASHI ; UNI CHARM CORP ; UNICHARM CORP

Assignee(s): UNICHARM SHIKOKUCHUO SHI CORP ; UNI CHARM CO LTD

Inventor(s): (std): UDA TADASHI ; OBA TORU ; MIZUTANI SATOSHI ; UDA MASASHI

Agent(s): STREHL SCHUEBEL HOPF AND PARTNER MBB PATENTANWALTE EUROPEAN PATENT ATTORNEYS; Eke Philippa Dianne; DOLLEYMORES; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; BRINKS GILSON AND LIONE; AOKI ATSUSHI ET AL

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

5) Family number: 12292343 (FI100453B)

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Title: Sanitary towel

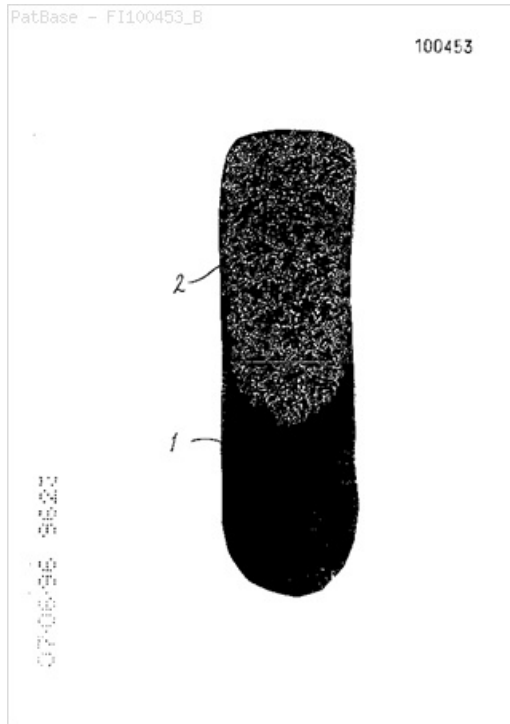
Abstract: The sanitary towel has a front surface 1 which bears against the clothing and covers an absorbent material. The front surface 1 is made skin-like, with the aim of preventing the sanitary towel from being seen through the clothes.

Classifications:

International (IPC 8-9): A61F13/15 (Advanced/Invention);

A61F (Subclass/Invention)

International (IPC 1-7): A61F A61F13/15

**Family:**

Publication number	Publication date	Application number	Application date
FI100453 B	19971215	FI19960002361	19960607
FI962361 A0	19960607	FI19960002361	19960607

Priority:

FI19960002361 19960607

Probable Assignee:

LEVORANTA ANJA

Assignee(s): (std):

LEVORANTA ANJA

Inventor(s): (std):

LEVORANTA ANJA

6) Family number: 32811350 (US2011144610A)

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Title: ABSORBENT ARTICLE COMPRISING AN ELASTIC WEB MATERIAL

Abstract: A pant type absorbent article such as a pant diaper, a sanitary pant or incontinence pant, said article having a core region (3) comprising an absorbent core (2) and a chassis region (4) surrounding the core region. The chassis comprises front, back and waist regions (5, 6 and 7). The article in at least a part of the chassis region (4) comprises an outer coversheet (10) in the form of an elastic web material (11) constituting the sole component of the chassis (4) in at least 20 percent of the total surface area of the article (1), said elastic laminate having an opacity of at least 40 percent and a basis weight of no more than 100 grams per square metre.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/496 A61F13/514 A61F13/72 A61L15/42 B32B27/12 (Advanced/Invention); A61F13/15 A61F13/49 A61F13/496 (Advanced/Non-invention); A61F13/15 A61F13/56 B29C55/18 B32B27/12 (Core/Invention)

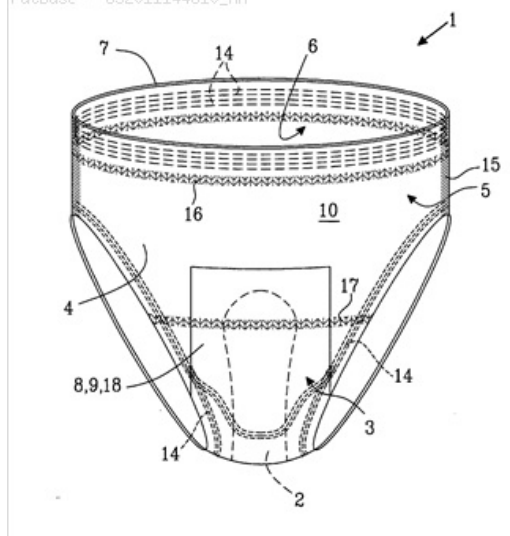
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CPC: A61F13/51464 A61F13/51401 A61F13/5146 A61F13/51462 A61F13/5148 A61F13/51484 A61F13/51496 A61F13/496 A61F13/15 A61F13/49

European: A61F13/514A A61F13/514B1A A61F13/514B1B A61F13/514B2 A61F13/514C2A A61F13/514C3 A61F13/514D

US: 1/1 604/367 604/367S 604/372 604/372P 604/385.24 604/385.240S 604/385.3 604/385.300S

PatBase - US2011144610_AA

**Family:**

Publication number	Publication date	Application number	Application date
AR051930 AA	20070221	AR2005P104097	20050928
AU2004323904 AA	20060413	AU20040323904	20041004
AU2004323904 BB	20110210	AU20040323904	20041004
BRPI0419076 A	20071218	BR2004PI19076	20041004

BRPI0419076 B1	20151222	BR2004PI19076	20041004
CA2580832 AA	20070319	CA20042580832	20041004
CN101035494 A	20070912	CN200480044150	20041004
EP1799169 A1	20070627	EP20040793778	20041004
EP1799169 B1	20160727	EP20040793778	20041004
JP2008515479 T2	20080515	JP20070534537T	20041004
KR20070061908 A	20070614	KR20077009706	20070427
MX2007003244 A1	20070524	MX20070003244	20041004
PL1799169 T3	20161230	PL20040793778T	20041004
RU2007116803 A	20081110	RU20070116803	20041004
RU2352315 C2	20090420	RU20070116803	20041004
TH76359 A	20060309	TH20051004627	20051003
TN2007000124 A1	20081121	TN20070000124	20070403
TNSN07124 A1	20081121	TN2007SN00124	20070403
TW200618780 A	20060616	TW20050131498	20050913
US2011144610 AA	20110616	US20040576497	20041004
US9271880 BB	20160301	US20040576497	20041004
WO06038837 A1	20060413	WO20045E01415	20041004

Priority:

EP20040793778 20041004 RU20070116803 20041004 WO20045E01415 20041004
KR20077009706 20070427

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): GUSTAFSSON ANDERS ; KARLSSON TOMAS ; KARLSSON TOMAS ; SCA HYGIENE PROD AB ; WIDLUND URBAN ; WAESTLUND KARLSSON JAN ; WENNERBAECK MARGARETHA ; SCA HYGIENE PRODUCTS AB ; WASTLUND KARLSSON JAN ; WENNERBACK MARGARETA

Assignee(s): SKA KHAJDZHIN PRODAKTS AB ; ESSITY HYGIENE AND HEALTH AKTIEBOLAG ; WENNERBACK MARGARETHA

Inventor(s): (std): KARLSSON TOMAS ; GUSTAFSSON ANDERS ; WIDLUND URBAN ; WAESTLUND KARLSSON JAN ; WENNERBAECK MARGARETHA ; URBAN WIDLUND ; WENNERBACK MARGARETHA ; WASTLUND KARLSSON JAN ; KARLSON TOMAS ; WENNERBAECK MARGARETA ; TOMAS KARLSSON ; ANDERS GUSTAFSSON ; KARLSSON T GUSTAFSSON A WIDLUN ; MARGARETA WENNERBOCK ; JAN WOSTLUND KARLSSON ; WENNERBACK MARGARETA ; VENNERBEK MARGARETA ; VESTLUND KARLSSON JAN ; VIDLUND URBAN ; MARGARETHA WENNERBAECK ; JAN WAESTLUND KARLSSON

Inventor(s): VESTLUND-KARLSSON JAN ; WOSTLUND KARLSSON JAN ; WENNERBOCK MARGARETA ; JAN WASTLUND KARLSSON ; KARLSSON T ; MARGARETHA WENNERBACK

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; FETHERSTONHAUGH AND CO; VALEA AB; BUCHANAN INGERSOLL AND ROONEY PC

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

7) Family number: 28667380 (US2003114810A)

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Title: DISPOSABLE TRAINING PANT DESIGNED SPECIFICALLY FOR LATE STAGE TOILET TRAINING

Abstract: A pant-like absorbent garment having an absorbent pad attached to a front region and a back region of an outer cover, wherein the absorbent pad is at least partially suspended therebetween to provide a close or customized fit for the wearer. The pant-like absorbent garment is suitable as a low capacity training pant for late stage toilet training.

Classifications:

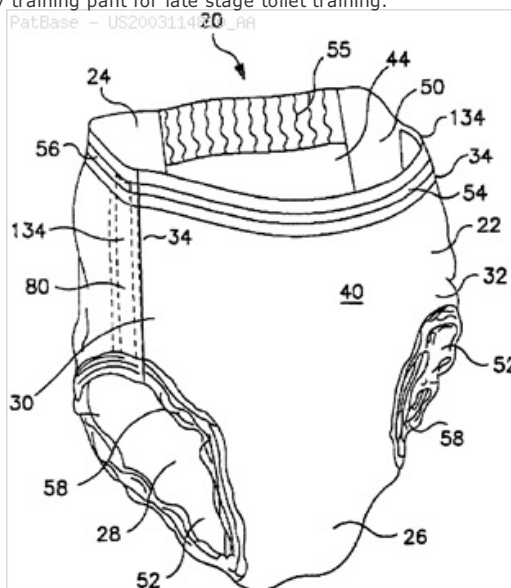
International (IPC 8-9): A41B13/04 A61F13/00 A61F13/15 A61F13/496 (Advanced/Invention); A41B13/04 A61F13/496 (Advanced/Non-invention); A41B13/00 A61F13/00 A61F13/15 (Core/Invention)

International (IPC 1-7): A41B13/04 A61F13/00 A61F13/15 A61F13/496

CPC: A61F13/15203 A61F13/496 A61F2013/425

European: A61F13/15J A61F13/496 K61F13/42E

US: 604/362 604/362P 604/378 604/385.01 604/385.010S 604/385.101 604/385.16 604/385.22 604/396



Family:

Publication number	Publication date	Application number	Application date
AR037453 AA	20041110	AR2002P104574	20021127
AU2002333606 AA	20030630	AU20020333606	20020912
AU2002333606 AH	20030630	AU20020333606	20020912
DE60225176 D1	20080403	DE20026025176	20020912

DE60225176 D1	20080403	DE20026025176T	20020912
DE60225176 T2	20090212	DE20026025176T	20020912
DE60225176 T3	20120412	DE20026025176T	20020912
EP1453449 A2	20040908	EP20020805048	20020912
EP1453449 B1	20080220	EP20020805048	20020912
EP1453449 B2	20111012	EP20020805048	20020912
EP1453449 B8	20080416	EP20020805048	20020912
KR100912979 B1	20090820	KR20047008115	20020912
KR20040074991 A	20040826	KR20047008115	20020912
MXPA04005060 A1	20040819	MX2004PA05060	20020912
US2003114810 AA	20030619	US20010017762	20011214
US6793650 BB	20040921	US20010017762	20011214
WO03051247 A2	20030626	WO2002US29051	20020912
WO03051247 A3	20031030	WO2002US29051	20020912

Priority:

US20010017762 20011214 EP20020805048 20020912 WO2002US29051 20020912
WO2002US29051 20040528

Probable Assignee: KIMBERLY CLARK CORP

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

Assignee(s): WEBER SHIRLEE ANN ; KIMBERLY CLARK WORLDWIDE

Inventor(s): (std): WEBER SHIRLEE ANN ; SHIRLEE ANN WEBER ; WEBER SHIRLEE

Agent(s): DAVIES CHRISTOPHER ROBERT; CHIVA ANDREW PETER

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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

8) Family number: 55188499 (US2015088087A)

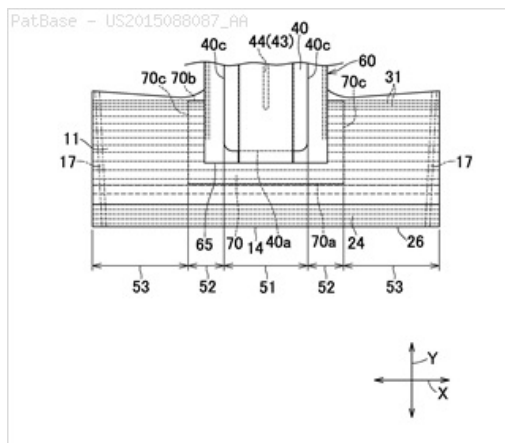
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Title: WEARING ARTICLE

Abstract: A wearing article including a region in which the wearer's skin is not seen-through other than the existence region of the absorbent structure even when an area of the absorbent structure is relatively small so that the existence region of the absorbent structure may be unnoticeable from the outside. A region of the absorbent structure of a diaper overlapping with the first waist region has a dimension in the transverse direction corresponding to 20 to 30 percent of a dimension in the transverse direction of the first waist region, the first waist region is disposed with a hardly see-through panel overlapping with the absorbent structure and includes a first region in which the chassis, the absorbent structure and the hardly see-through panel are laminated, second regions adjacent on both outsides in the transverse direction of the first region, in which the chassis and the hardly see-through panel are laminated and third regions adjacent on both outsides in the transverse direction of the respective second regions and only the chassis is included; and a differential total luminous transmittance between the first region and the second regions is smaller than a differential total luminous transmittance between the second region and the third region.

Classifications:

International (ipc 8-9): A61F13/15 A61F13/49 A61F13/494 A61F13/496 A61F13/51 A61F13/514 A61F13/515 A61F13/551 A61F13/84 (Advanced/Invention); A61F13/84 (Advanced/Non-invention); A61F13/49 (Core/Invention)
CPC: A61F13/51496 A61F13/49011 A61F13/49413 A61F13/51478 A61F2013/49092 A61F2013/4948 A61F13/15203 A61F13/49061 A61F13/496 A61F13/515 A61F2013/15243 A61F2013/49068 A61F2013/8497
US: 1/1 604/385.16 604/385.21



Family:

Publication number	Publication date	Application number	Application date
AU2013261389 AA	20131121	AU20130261389	20130515
AU2013261389 BB	20161124	AU20130261389	20130515
CN104302259 A	20150121	CN201380025209	20130515
CN104302259 B	20161221	CN201380025209	20130515
DE602013013917 D1	20161222	DE201360013917T	20130515
EP2851046 A1	20150325	EP20130790038	20130515
EP2851046 A4	20151111	EP20130790038	20130515
EP2851046 B1	20161109	EP20130790038	20130515
IN09777DN2014 A	20150807	IN2014DN09777	20141119
JP2013255777 A2	20131226	JP20120247919	20121109
JP5988836 B2	20160907	JP20120247919	20121109
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TW201408269 A	20140301	TW20130116884	20130513
TWI551276 B	20161001	TW20130116884	20130513
US2015088087 AA	20150326	US20130397448	20130515
US9161867 BB	20151020	US20130397448	20130515
WO13172393 A1	20131121	WO2013JP63605	20130515

Priority:

JP20120111951 20120515 JP20120247919 20121109 EP20130790038 20130515
WO2013JP63605 20130515

Probable Assignee: UNICHARM COPRORATION

Assignee(s): (std): UNI CHARM CORP ; UNI CHARM LTD ; UNICHARM CORP

Assignee(s): UNICHARM SHIKOKUCHUO SHI CORP ; UNICHARM COPRORATION ; UNI CHARM CO LTD

Inventor(s): (std): KAWAKAMI YUSUKE ; FUJIMOTO KAZUYA

Agent(s): PHILLIPS ORMONDE FITZPATRICK; PATENTANWAELTE STAEGER AND SPERLING
PARTNERSCHAFTSGESELLSCHAFT MBB; PETER JULIAN; BRINKS GILSON AND LIONE; SHIRAHAMA
YOSHIHARU ET AL

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

9) Family number: 15899562 (US6297420B)

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Title: METHOD OF SELECTING AN ITEM TO MATCH A PERSON'S SKIN TONE

Abstract: A method of selecting or manufacturing a matching skin tone item, such as a bandage; including sterile wrapped adhesive bandages, the methods including matching by scanner, manufacturing by printing, developing skin tone colors.

Classifications:

International (IPC 8-9): A61F13/02 (Advanced/Invention);

A61F13/00 (Advanced/Non-invention);

A61F13/02 (Core/Invention);

A61F13/00 (Core/Non-invention)

International (IPC 1-7): A61F13/00

CPC: A61F13/0246 A61F13/0206 A61F2013/00378

European: A61F13/02 K61F13/00L1A4

US: 602/41 602/54 602/58

PatBase - US6297420_BA

U.S. Patent Oct. 2, 2001 Sheet 1 of 3 US 6,297,420 B1

FIG.1

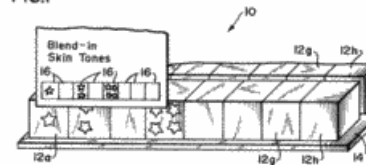


FIG.2

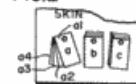


FIG.3

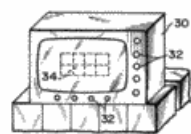
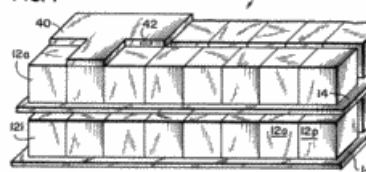


FIG.4



Family:

Publication number	Publication date	Application number	Application date
US6297420 BA	20011002	US19990430271	19991029

Priority:

US19990430271 19991029

Probable Assignee:

HEINCKE ARNO J

Assignee(s): (std):

HEINCKE ARNO J

Inventor(s): (std):

HEINCKE ARNO J

10) Family number: 63993593 (US2018147098A)

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Title: ABSORBENT ARTICLE IN THE FORM OF PANTS, SUCH AS NAPPY PANTS, SANITARY PANTS OR INCONTINENCE PANTS

Abstract: An absorbent article in the form of pants includes: an absorbent core having two longitudinal edges and two transverse edges, and a pant part. The pant part includes a covering layer, a front section, a back section and an intermediate crotch section, wherein the front and back sections are connected to one another along two opposing longitudinal lateral edges to form a waist opening and a pair of leg openings. The absorbent core is arranged at least in the crotch section and connected to the covering layer on the side of the covering layer that is intended to face the wearer. The pant part includes at least one low-opacity area, which has an opacity that is lower than 50 percent. The article also includes a liquid-tight coloured barrier layer placed between said absorbent core and covering layer.

Classifications:

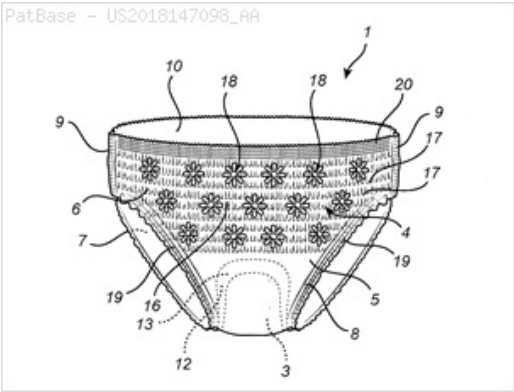
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/496

A61F13/51 A61F13/514 A61F13/515 A61F13/84 (Advanced/Invention);

A61F13/84 (Advanced/Non-invention)

CPC: A61F13/496 A61F13/51496 A61F13/84 A61F13/49019

A61F13/4902 A61F2013/49025 A61F2013/49093



Family:

Publication number	Publication date	Application number	Application date
AU2015394532 AA	20171123	AU20150394532	20150511
AU2015394532 BB	20180510	AU20150394532	20150511
BR112017023375 A2	20180717	BR20171123375	20150511
CN108348370 A	20180731	CN201580079888	20150511
CO20170011872 A2	20180209	CO20170011872	20171122
EP3294246 A1	20180321	EP20150891989	20150511
EP3294246 A4	20190403	EP20150891989	20150511
JP2018516654 T2	20180628	JP20170559009T	20150511
JP6550474 B2	20190724	JP20170559009T	20150511
MX2017014391 A1	20180323	MX20170014391	20150511
RU2667872 C1	20180924	RU20170142975	20150511
US2018147098 AA	20180531	US20150572299	20150511
WO16182484 A1	20161117	WO2015SE50523	20150511

Priority:

WO2015SE50523 20150511

Probable Assignee: ESSITY HYGIENE AND HEALTH AKTIEBOLAG

Assignee(s): (std): ESSITY HYGIENE AND HEALTH AB ; SCA HYGIENE PROD AB ; SCA HYGIENE PRODUCTS AB

Assignee(s): ESSITY HYGIENE AND HEALTH AKTIEBOLAG

Inventor(s): (std): ASA LINDSTROEM ; LINDSTROM ASA ; LINDSTROEM ASA

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; JOSE ANDRES RINCON USCATEGUI; HOFFMANN EITLÉ; YURIDICHESKAYA GORODISSKIJ I PARTNERY OOO FA; SCA HYGIENE PRODUCTS AB

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

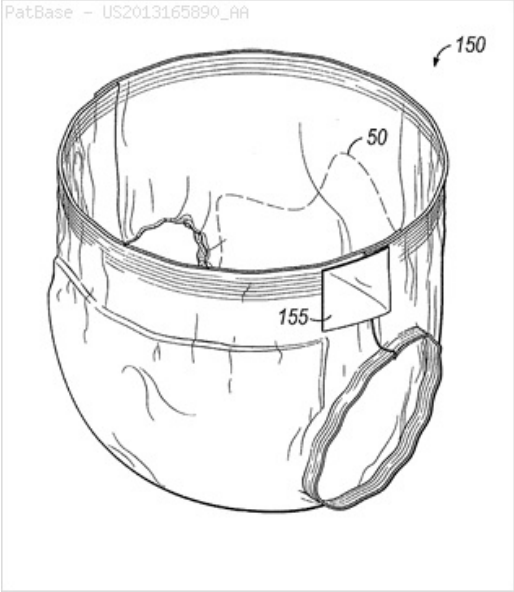
11) Family number: 54171619 (US2013165890A) © PatBase

Title: DISPOSABLE ABSORBENT PRODUCT WITH ELASTIC LEG OPENING REGIONS AND RELATED METHODS

Abstract: A disposable absorbent product extends along a longitudinal dimension and a width dimension. The absorbent product has a backsheet, a topsheet overlaying the backsheet, and an absorbent core that is disposed between the backsheet and the topsheet for absorbing and retaining fluid secreted by a wearer of the absorbent product. The absorbent product also has a first multidirectional stretch material layer, adjacent the backsheet, that defines a first contoured leg opening of the absorbent product adapted to fit around a first leg of the wearer of the absorbent product.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49 A61F13/496 A61F13/514 B31B1/00 (Advanced/Invention) CPC: A61F13/49017 A61F13/49019 A61F13/4902 A61F13/49058 US: 1/1 493/393 604/385.16



Family:

Publication number	Publication date	Application number	Application date
AU2012357740 AA	20130627	AU20120357740	20121219
AU2012357740 BB	20150326	AU20120357740	20121219
AU2012357740 BI	20150730	AU20120357740	20121219
BR112014015092 A2	20170613	BR20141115092	20121219
BR112014015092 A8	20170704	BR20141115092	20121219
BR112014015092 A8	20170613	BR20141115092	20121219
BR112014015092 A8	20170704	BR20141115092	20121219
CN104093386 A	20141008	CN201280066387	20121219
CN104093386 B	20170222	CN201280066387	20121219
CO7000760 A2	20140721	CO20140149727	20140711
EP2793786 A1	20141029	EP20120809263	20121219
JP2015502228 T2	20150122	JP20140547974T	20121219
JP6037348 B2	20161207	JP20140547974T	20121219
RU2014130213 A	20160220	RU20140130213	20121219
RU2585709 C2	20160610	RU20140130213	20121219
US2013165890 AA	20130627	US20110336731	20111223
US9289331 BB	20160322	US20110336731	20111223
WO13092704 A1	20130627	WO2012EP76138	20121219

Priority:

US20110336731 20111223 WO2012EP76138 20121219

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): GLAUG FRANK STEVEN ; SCA HYGIENE PROD AB ; CARNEY JOSHUA DANIEL ; UNER SUE

Assignee(s): ESSITY HYGIENE AND HEALTH AKTIEBOLAG ; SCA HYGIENE PRODUCTS AB ; SKA KHAJDZHIN PRODAKTS AB

Inventor(s): (std): UNER SYU ; GLOG FRENK STIVEN ; KARNI DZHOSHUA DENIEL ; CARNEY JOSHUA ; UNER SUE ; CARNEY JOSHUA DANIEL ; GLAUG FRANK STEVEN

Inventor(s): SUE UNER ; JOSHUA CARNEY ; FRANK STEVEN GLAUG

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; LUZ CLEMENCIA DE PAEZ; HOFFMANN EITLE; BUCHANAN INGERSOLL AND ROONEY PC; GOLLER DANIEL ET AL

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

12) Family number: 41104695 (JP2007312927A)

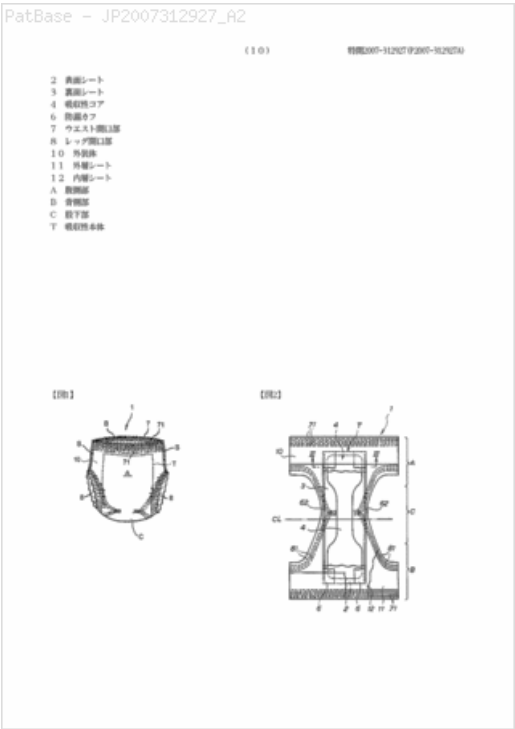
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Title: PANTS-TYPE ABSORBENT ARTICLE

Abstract: PROBLEM TO BE SOLVED: To provide a pants-type absorbent article capable of minimizing the basic weight of an elastic nonwoven fabric even if an exterior body is formed of an elastic nonwoven fabric containing polyurethane-based elastomer and obscuring a wearer's skin seen therethrough and yellowing of the polyurethane-based elastomer in the exterior body in the pants-type absorbent article having an absorbent body including an absorbent core and the exterior body joined with a skin-non-abutment side of the absorbent body. SOLUTION: This pants-type absorbent article 1 is provided with the absorbent body T including the absorbent core 4 and the exterior body 10 joined with the skin-non-abutment side of the absorbent body T, the exterior body 10 consists of an outer layer sheet 11 formed of the elastic nonwoven fabric containing polyurethane-based elastomer and an inner layer sheet 12 consisting of at least one-layer of nonelastic nonwoven fabric. The color of the outer layer sheet 11 is beige.

Classifications:

International (IPC 8-9): A61F13/49 A61F13/496 A61F13/51 A61F13/514 (Advanced/Invention); A61F13/15 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
JP2007312927 A2	20071206	JP20060144483	20060524
JP4679436 B2	20110427	JP20060144483	20060524

Priority:

JP20060144483 20060524

Probable Assignee: KAO CORP
Assignee(s): (std): KAO CORP
Inventor(s): (std): ISHIGURO KENJI
Agent(s): MATSUSHIMA YOSHIYUKI; HATORI OSAMU

13) Family number: 15496726 (US2003065299A)

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Title: TRANSPARENT ABSORPING ARTICLE

Abstract: The present invention relates to absorbent articles, such as pantliners or sanitary napkins, which have at least one region of the article which is transparent to visible light. In one embodiment to whole article is transparent.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/42
A61F13/472 A61F13/476 A61F13/49 A61F13/51 A61F13/511
A61F13/514 A61F13/539 A61F5/44 (Advanced/Invention);
A61F13/15 (Advanced/Non-invention);
A61F13/15 A61F13/42 A61F5/44 (Core/Invention);
A61F (Subclass/Invention)

International (IPC 1-7): A61F A61F13/00 A61F13/15 A61F13/20 A61F13/42 A61F13/472 A61F13/476 A61F13/49 A61F13/51
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CPC: A61F13/42 A61F13/476 A61F13/51 A61F13/51496 A61F13/539

European: A61F13/42 A61F13/476 A61F13/51 A61F13/514D A61F13/539

US: 604/367 604/385.01 604/385.010P 604/385.04 604/385.040S 604/387 604/387S

PatBase - KR20020061589_B

$$\Delta E = [(L)^2 + (a)^2 + (b)^2]^{1/2}$$

Family:

Publication number	Publication date	Application number	Application date
AR027711 AA	20030409	AR2001P101385	20010323
AU2001247718 AA	20011008	AU20010247718	20010321
AU2001247718 BB	20050106	AU20010247718	20010321
AU200147718 A1	20011008	AU20010047718	20010321
AU200147718 A5	20011008	AU20010047718	20010321
BRPI0109098 A	20030603	BR2001PI09098	20010321
CA2403872 AA	20020917	CA20012403872	20010321
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CN1210008 C	20050713	CN20018007185	20010321
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CZ20022984 A3	20021113	CZ20020002984	20010321
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EG22397 A	20030129	EG20010000296	20010324
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HU226262 B1	20080728	HU20030000003	20010321
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IN245701 B	20110204	IN2002DN00838	20020826
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KR100728399 B1	20070613	KR20027012624	20010321
KR20020081589 A	20021028	KR20027012624	20010321
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MY136172 A	20080829	MY20010001379	20010323
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US2003065299 AA	20030403	US20010239599	20010321
US8491554 BB	20130723	US20010239599	20010321
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Priority:

EP20000106495 20000325 EP20000115522 20000719 WO2001US09329 20010321
KR20027012624 20020924 WO2001US09329 20020924

Probable Assignee: PROCTOR AND GAMBLE CO

Assignee(s): (std): ADDARIO ROBERTO D ; CARLUCCI GIOVANNI ; D ADDARIO ROBERTO ; GAGLIARDI IVANO ;
PROCTER AND GAMBLE ; THE PROCTER AND GAMBLE COMPANY

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

Inventor(s): (std): CARLUCCI GIOVANNI ; D ADDARIO ROBERTO ; GAGLIARDI IVANO ; IVANO GAGLIARDI ; GIOVANNI
CARLUCCI ; ADDARIO ROBERTO D

Inventor(s): ROBERTO D ADDARIO ; DADDARIO ROBERTO ; CARLUCCI GIOVANNI DADDARIO ROBERTO

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; WATERMARK PATENT AND TRADE MARKS
ATTORNEYS; MBM INTELLECTUAL PROPERTY LAW LLP; HARNECKER; KREMER VERONIQUE MARIE
JOSEPHINE; JASON J; MEGAN C; ANDREW J

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 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
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