

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
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DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 379 FASE NACIONAL INCLUIDO CAPITULO II
TRA: 11 PCT-PATENTE DE INVENCION CAPITULOS I Y II	FOLIOS: 15
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
LUZ CLEMENCIA DE PÁEZ

Asunto: Radicación: 14-94351- -13
Trámite: 11
Evento: 379
Actuación: 519
Oficio: 4940
Folios: 15

Patente de Invención	X			Patente de Modelo de Utilidad	
Vía Nacional					
Vía PCT (Fase Nacional)	X	Capítulo I		Capítulo II	X
No. Solicitud Internacional	PCT/EP2012/068438				
Fecha de Presentación Internacional	02/10/2012				

Como resultado del examen de fondo realizado, con fundamento en el Artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción:	Rad. N° 14-094361-00000-0000	02/mayo/2014
Reivindicaciones:	Rad. N° 14-094361-00010-0000	23/febrero/2016
Dibujos:	Rad. N° 14-094361-00000-0000	02/mayo/2014
Prioridad:	US 13/269,292	07/octubre/2011

2. Análisis de la Prioridad

Se acepta la reivindicación de prioridad porque ésta solicitud fue presentada dentro del plazo establecido (Art. 9 D 486) y su contenido técnico corresponde con el de la prioridad reivindicada.

3. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del Capítulo Primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por el solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. Por lo tanto, se estudiaran las reivindicaciones 1 a 21 (Páginas 5 a 9, radicado 14-094361-00010-0000).

Título de la solicitud: “Producto absorbente desechable con múltiples estructuras de almacenamiento de fluidos y métodos relacionados” (Pág. 1, radicado N° 14-094361-00000-0000).

El problema planteado en esta solicitud, consiste la necesidad de proporcionar los productos absorbentes desechables y los métodos relacionados, que aborden deficiencias como la rigidez, la incomodidad, la capacidad de absorción entre otros.

Para resolver este problema técnico, la solicitud en estudio proporciona un producto absorbente desechable, el producto absorbente incluye un lienzo inferior, un lienzo superior que recubre el lienzo inferior, y un núcleo dispuesto entre el lienzo inferior y el lienzo superior para retener el fluido segregado por un portador del producto absorbente. El núcleo tiene una dimensión de longitud, una dimensión de ancho, y una dimensión de espesor ortogonal a las dimensiones de longitud y ancho, El núcleo incluye las primera y segunda estructuras de almacenamiento de fluidos, con la primera estructura de almacenamiento de fluidos que rodea al menos parcialmente la segunda estructura de almacenamiento de fluidos en la dimensión de espesor y un método para formar un núcleo en un producto absorbente desechable que incluye un lienzo superior, un lienzo inferior que recubre el lienzo superior, y un núcleo dispuesto entre el lienzo superior y el lienzo inferior y que tiene una dimensión de longitud, una dimensión de ancho, y una dimensión de espesor ortogonal a las dimensiones de longitud y ancho y un método que incluye obtener una primera estructura de almacenamiento de fluidos que tiene una superficie superior, una superficie inferior opuesta a la superficie superior, una pluralidad de paredes exteriores que se extienden entre las superficies superior e inferior, y una pluralidad de paredes interiores, el método incluye localizar una segunda estructura de almacenamiento de fluidos dentro de la abertura, y colocar las primera y segunda estructuras de almacenamiento de fluidos entre el lienzo superior y el lienzo inferior para definir de ese modo el núcleo del producto absorbente desechable.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes A61F13/15; A61F13/47; A61F13/49; A61F13/494; A61F13/535.

4. De la solicitud de patente

Reivindicaciones (Art 30 D 486)

El capítulo reivindicatorio no es claro porque:

- En las reivindicaciones 1 a 21, las expresiones: “*porción interior*”, “*primer espesor*”, “*una porción exterior*”, “*segundo espesor*”, “*dimensión de espesor*”, “*primera densidad*”, “*dicha porción exterior*”, “*segunda densidad*”, “*pulpa*”, “*material depositado por aire*”, “*material súper absorbente*”, “*paredes exteriores*”, “*paredes interiores*”, “*paredes interiores*”, “*un plano intermedio*”, “*comprimir*”, “*una primera medida*”, “*una segunda medida*”, “*las primeras y segundas estructuras de almacenamiento de fluidos*”, “*dimensión de longitud*”, “*dimensión de ancho*”, “*una dimensión de espesor*”, son generales y no definen con claridad las cantidades o productos a los cuales se refieren, por lo tanto, incluyen todas las posibles alternativas presentes o futuras, se sugiere remplazarlo por las características esenciales para definir con precisión lo que se desea proteger.
- Los términos de las reivindicaciones 1, 4, 6, 7, 9, 12, 13, 16, 17, 18 y 21, “*al menos*”, “*parcialmente*”, “*es más rígida*”, “*mayor que*”, “*que rodea*”, “*sustancialmente*”, “*una pluralidad*”, “*un grado predeterminado*”, son imprecisos, por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término preciso o un rango concreto.
- En las reivindicaciones 1, 13, 16 y 17 presentan características funcionales del método como lo son: “*para retener el fluido segregado por un portador del producto*”

absorbente (10)”, “y configuradas para absorber y distribuir fluido secretado por el portador hacia dicha primera y dicha segunda estructura de almacenamiento de fluidos”, “para de ese modo definir el núcleo del producto absorbente desechable”, “y configuradas para absorber y distribuir fluido secretado por el portador hacia dicha primera y dicha segunda estructura de almacenamiento de fluidos”, “a fin de definir la abertura.”, “a fin de definir la abertura”, “y configuradas para absorber y distribuir fluido secretado por el portador hacia dicha primera y dicha segunda estructura de almacenamiento de fluidos”, es importante recordar que aunque estas características funcionales pueden ir dentro de las reivindicaciones, su función es dar claridad a las mismas, por lo que no le pueden dar novedad o nivel inventivo ya que no se consideran características técnicas esenciales.

- En la reivindicación 13 los términos: *“en donde la segunda estructura de almacenamiento de fluido (22) es más rígida que la primera estructura de almacenamiento de fluido (21)”*, está representado como una consecuencia o resultado a obtener, se sugiere remplazarlo por las características esenciales o eliminarlos para dar concisión a las reivindicaciones.
- En el método de la reivindicación 13, incluye el término *“obtener”* [1], lo cual no es claro, ya que sugiere un proceso o etapa anterior, por tanto, estaría fuera del alcance del método reivindicado, se sugiere aclaraciones al caso.
- El procedimiento de la reivindicación 13 no se encuentra correctamente definido, por cuanto su preámbulo indica *“Un método para formar un núcleo en un producto absorbente desechable (10)”*, sin embargo no muestran en su parte caracterizante las etapas técnicas con sus condiciones técnicas (temperaturas, flujos, presiones, etc.), por lo anterior estas reivindicaciones no son claras. Se sugiere realizar las aclaraciones respectivas o definir la invención por sus características esenciales y estructurales, teniendo en cuenta de no modificar o ampliar la material ya divulgada.

5. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud: Octubre 07 de 2011, y se encontraron los siguientes documentos que anticipan el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación
D3	US 742,968,9	“Absorbent article with center fill performance”	30/09/2008
D4	US 2006/069366	“Core for an absorbent article”	30/03/2006

El documento D3² divulga un artículo absorbente que tiene una dirección longitudinal, una dirección transversal, una dirección vertical sustancialmente normal a las direcciones longitudinal y transversal, y un lado del cuerpo, comprendiendo el artículo absorbente: a) un núcleo absorbente que tiene una superficie del lado del cuerpo, el núcleo que comprende un miembro absorbente exterior que tiene un vacío central abierta hacia el lado del cuerpo del artículo absorbente, y un elemento absorbente central dispuesto sobre el vacío central del elemento absorbente exterior y que se extiende en el vacío; y b) una barrera de mecha dispuesto entre el miembro exterior absorbente y el elemento absorbente central, de la barrera de mecha que comprende un componente vertical y una componente horizontal, la componente vertical que abarca una distancia vertical entre el elemento absorbente exterior y el miembro absorbente central, y el horizontal componente que abarca una distancia

1Obtener: Fabricar o extraer un material o un producto con ciertas cosas o de cierta manera/Alcanzar, conseguir y lograr algo que semerece, solicita o pretende; En línea: <http://dle.rae.es/?id=QpzmTs>

2http://worldwide.espacenet.com/publicationDetails/originalDocument?CC=US&NR=7429689B2&KC=B2&FT=D&ND=4&date=20080930&DB=EPODOC&locale=en_EP

horizontal en la superficie del lado del cuerpo del núcleo absorbente (Pág.31, Col. 2, líneas 9 a 27).

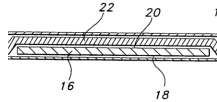
El documento D4³ divulga un núcleo para un artículo absorbente que comprende una capa absorbente que tiene lados primero y segundo, la capa absorbente que tiene una parte central, el núcleo también comprende una capa de adquisición dispuesta adyacente a la capa absorbente, con la capa de adquisición que tiene una parte central y una parte de perímetro, la porción central de la capa de adquisición está dispuesto adyacente al primer lado de la porción central de la capa absorbente y la parte de perímetro de la capa de adquisición está dispuesto adyacente al segundo lado de la porción de perímetro de la capa absorbente. (Pág.31, Col. 2, líneas 9 a 27).

6. Examen de Patentabilidad (Art 14 D486)

Nivel inventivo (Art18 D486)

La reivindicación 1 consiste en: “*Un producto absorbente desechable (10) que comprende: (...)*” (Ver Pág. 5 del Radicado N° 14-094361-00010-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D3	D4
Un producto absorbente desechable (10) que comprende:	Artículo absorbente (Reivindicación 1). El artículo absorbente, marcado generalmente como (10) comprende (Pág. 52, Col. 43, líneas 58 y 59).	Un núcleo de un artículo absorbente que comprende (Reivindicación 1).
una hoja posterior (14);	Una hoja posterior impermeable a los líquidos (14) en la superficie del lado de prendas opuestas del artículo (Pág. 52, Col. 43, líneas 60 a 62).	El artículo absorbente de la reivindicación 6 en el que la hoja superior se coloca adyacente a la porción central de la capa de adquisición (Reivindicación 7).
un hoja superior (12) que recubre dicho hoja posterior (14);	El artículo absorbente que comprende además una lámina superior, en el que la lámina superior está provista de al menos un pliegue para formar una barrera escorrentía elevada (Reivindicación 1). Una lámina superior permeable a los líquidos (12) en la superficie del lado del cuerpo del artículo (Pág. 52, Col. 43, líneas 59 y 60).	Un artículo absorbente que comprende el núcleo de la reivindicación 1, donde el artículo absorbente comprende además una lámina posterior situado adyacente al segundo lado de la porción central de la capa absorbente (Reivindicación 9).
y un núcleo (16) dispuesto entre dicha hoja posterior (14) y dicha hoja superior (12) para retener el fluido segregado por un portador del producto absorbente (10),	a) un núcleo absorbente que tiene una superficie del lado del cuerpo, el núcleo absorbente que comprende un elemento absorbente exterior que tiene un vacío dispuesta centralmente en el mismo, el vacío dispuesta centralmente abierta hacia el lado del cuerpo del artículo absorbente, y un miembro absorbente central dispuesta en el medio del miembro absorbente exterior y que se extiende en el vacío dispuesto centralmente (Reivindicación 1).	Una capa absorbente que tiene lados primero y segundo, dicha capa absorbente que tiene una parte central (Reivindicación 1).  FIG. 4

³http://worldwide.espacenet.com/publicationDetails/description?CC=US&NR=2006069366A1&KC=A1&FT=D&ND=&date=20060330&DB=&locale=en_EP

centralmente en el mismo, el vacío dispuesta centralmente abierta hacia el lado del cuerpo del artículo absorbente, y un miembro absorbente central dispuesta dentro del miembro absorbente exterior y b) una barrera de mecha dispuesto entre el miembro exterior absorbente y el elemento absorbente central, de la barrera de mecha que comprende un componente vertical y una componente horizontal, la componente vertical que abarca una distancia vertical entre el elemento absorbente exterior y el miembro absorbente central, y el horizontal componente que abarca una distancia horizontal en la superficie del lado del cuerpo del núcleo absorbente (Reivindicación 1)

La diferencia entre la invención definida en la reivindicación 1 y el artículo absorbente divulgado en D3, consiste en que este último no menciona que el núcleo incluya una capa de adquisición en contacto con dichas superficies superiores de ambas primeras y segundas estructuras de almacenamiento de fluidos.

El efecto técnico que logra el incluir una capa de adquisición en contacto con las superficies de almacenamiento de fluidos, es absorber y distribuir el fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos.

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: “¿Como modificar el artículo absorbente de D3 de tal manera que absorba y distribuya el fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos?”.

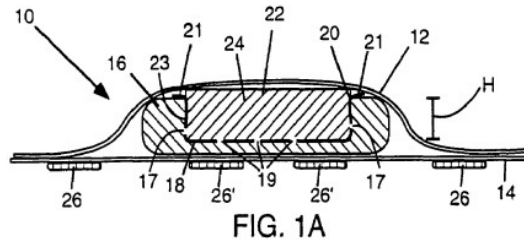
Sin embargo, ya era conocido en el estado de la técnica artículos absorbentes que incluyen una capa de adquisición, puesto que, el documento D4 menciona una capa de adquisición dispuesta adyacente a dicha capa absorbente, capa de adquisición que tiene una parte central (Reivindicación 1), donde esta capa de adquisición de líquido puede ser de cualquier tipo de construcción, por ejemplo, cardado a través de aire unido, un material no tejido de dos componentes de unión por hilatura, una tela de fibras de reticulación de celulosa, con aberturas en 3D (tres dimensiones) de película, las fibras unidas con adhesivo, o similares (Párr. 0032), y sirve para gestionar, transportar, distribuir y/o altos volúmenes y velocidades de flujo de fluido en el núcleo (Párr. 0032).

En consecuencia, la persona del oficio normalmente versada en la materia enfrentada al problema técnico de cómo modificar el artículo absorbente de D3 de tal manera que absorba y distribuya el fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos, estaría motivada a incluir una capa de adquisición para gestionar, transportar, distribuir y/o altos volúmenes y velocidades de flujo de fluido en el núcleo como es divulgado en D4, en el artículo absorbente que es divulgado en D3, llegando así al objeto de la reivindicación 1, por lo cual se considera obvia.

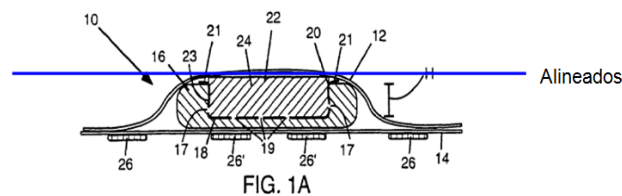
Asimismo, el documento D3 divulga las características de la reivindicación dependientes así:

- La reivindicación 3. Un núcleo absorbente que tiene una superficie del lado del cuerpo, el núcleo absorbente que comprende un elemento absorbente exterior que tiene un vacío dispuesta centralmente en el mismo, el vacío dispuesta centralmente abierta hacia el lado del cuerpo del artículo absorbente, y un miembro absorbente central dispuesta en el medio del miembro absorbente exterior y que se extiende en el vacío dispuesto centralmente (Reivindicación 1).
- La reivindicación 4. Un núcleo absorbente que tiene un elemento absorbente central y un miembro de conformación exterior, el miembro de conformación exterior que tiene un vacío central definida en el mismo para recibir al menos una porción del miembro absorbente central, con lo cual se define una interfaz entre el elemento absorbente central y la miembro de conformación exterior, la interfaz que abarca una distancia vertical, el miembro de conformación exterior que tiene adecuadamente un espesor de al menos aproximadamente 1 mm, una anchura

de borde de al menos aproximadamente 2 mm, y un peso base de al menos aproximadamente 100 gsm (Pág. 32, Col. 3, líneas 24 a 33); Como se observa la figura 1 A, el cuerpo absorbente exterior (16) se encuentra en medio de las capas (12) y (14), es decir, en contacto con la lámina superior permeable a los líquidos (12) y la hoja posterior impermeable a los líquidos (14).



- La reivindicación 5. Como se observa la figura 1 A, el cuerpo absorbente exterior (16), el cuerpo absorbente central (22) y la lámina superior permeable a los líquidos (12) se encuentran alineados.



- La reivindicación 6. De manera que la densidad del elemento central absorbente o miembro absorbente exterior puede ser mayor que la densidad crítica por un factor de aproximadamente 1,2 o mayor, más específicamente 1,5 o mayor, y más específicamente aun aproximadamente 2 o mayor. El miembro absorbente exterior puede tener una densidad muy por debajo de la densidad crítica, tales como por debajo de aproximadamente 0,1 g/cc (Pág. 51, Col. 41, líneas 41 a 47).
- La reivindicación 7. La barrera de mecha tiene una componente vertical (23) (que no tiene que ser sustancialmente vertical en la orientación como se muestra, pero se extiende por una distancia vertical) y tiene una componente horizontal (21) que actúa como un saliente y que abarca una distancia horizontal en la superficie del lado del cuerpo de cualquiera de los exterior miembro absorbente (16) o el elemento absorbente central (22) (Pág. 52, Col. 44, líneas 9 a 14).
- La reivindicación 8. El miembro de conformación exterior puede comprender materiales absorbentes, en particular de celulosa, tales como una espuma regenerado de celulosa o pulpa de pelusa estabilizada o fibras de madera de aire establecido, estabilizado con fibras termoplásticas, reticulante o agentes de resistencia en húmedo, y puede ser preformada o puede ser plana. Deseablemente, el miembro absorbente exterior comprende pulpa de pelusa densificada, estabilizado pulpa de tendido al aire, o las hojas de pulpa suave (Pág. 36, Col. 13, líneas 1 a 8).
- La reivindicación 9. El miembro absorbente central generalmente puede ser de cualquier forma, tal como circular, elíptica, rectangular, triangular, forma poligonal, de hueso de perro, en forma de reloj de arena, o en forma de diamante, y está insertado o se inserta en una depresión o vacío en un elemento absorbente exterior que tiene o bien una anchura o longitud, o ambos, mayor que la anchura respectiva o la longitud del miembro absorbente central (Pág. 41, Col. 21, líneas 9 a 12).
- La reivindicación 10 y 11. Miembro central absorbente 22 comprende una tira absorbente o de la sección 24 que puede ser un rectangular u otra inserción perfilada que comprende adecuadamente fibras hidrófilas tales como tendido al

aire o celulosa tendido en húmedo, incluyendo una capa de pulpa de pelusa, múltiples capas de crepé o no tejido, musgo de turba, algodón, mezclas de fibras absorbentes y partículas superabsorbentes o fibras, o capas de pelusa separadas por capas de tejido (Pág. 52, Col. 44, líneas 34 a 41).

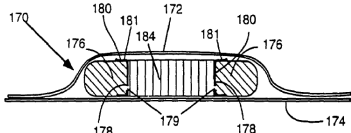
Asimismo, el documento D4 divulga las características de la reivindicación dependientes así:

- La reivindicación 2. La capa de adquisición de líquido puede ser de cualquier tipo de construcción, por ejemplo, a / velo cardado a través de aire unido, un material no tejido de dos componentes de unión por hilatura, una tela de fibras de reticulación de celulosa, con aberturas en 3D (tres dimensiones) de película, las fibras unidas con adhesivo o similares (Párr. 0032).

En la reivindicación 12, en cuanto al valor de la capacidad de absorción de 60 gramos Rothwell, se entiende que al anticipar el estado de la técnica cada una de las características del artículo absorbente, con toda probabilidad tendrían el mismo valor de dicho parámetro, en caso que se midiera

La reivindicación 13 consiste en: “Un método para formar un núcleo en un producto absorbente desechable (10) que incluye una hoja superior y una hoja posterior que recubre la hoja superior (...) el método que comprende: (...)” (Ver Pág. 7 del Radicado N° 14-094361-00010-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D3	D4
Un método para formar un núcleo en un producto absorbente desechable (10) (...) que comprende:	la invención reside en un método para producir un artículo absorbente que tiene un elemento absorbente central, comprendiendo el método: (Pág. 32, Col. 4, líneas 8 a 10).	Un método de fabricación de un núcleo para un artículo absorbente, el método comprende las etapas de (Reivindicación 13).
obtener una primera estructura de almacenamiento de fluidos que tiene una superficie superior, una superficie inferior dispuesta opuesta a la superficie superior, una pluralidad de paredes exteriores que se extienden entre las superficies superiores e inferiores, y una pluralidad de paredes interiores, las paredes exteriores e interiores se extienden sustancialmente a lo largo de las dimensiones ortogonales hasta la dimensión de espesor, las paredes interiores definen una abertura en la primera estructura de almacenamiento de fluidos;	a) preparación de un elemento absorbente exterior, en el que el miembro absorbente exterior tiene un vacío central (Pág. 32, Col. 4, líneas 11 y 12).  En la figura 7ª, se observa que tiene paredes exteriores y paredes interiores.	(A) formar una porción central de una capa absorbente (Reivindicación 13).
localizar una segunda estructura de almacenamiento de fluidos dentro de la abertura; y	b) deponer una capa de un material de barrera flexible sobre el vacío central; y c) la inserción de una sección de material absorbente en el vacío central y sobre el material de barrera para formar un elemento absorbente central, de tal manera que una porción del material de barrera separa el elemento absorbente central desde el	No menciona

	elemento absorbente exterior a lo largo de una distancia vertical (Pág. 32, Col. 4, líneas 13 a 19).	
colocar la primera y segunda estructuras de almacenamiento de fluidos entre la hoja superior y la hoja inferior para de ese modo definir el núcleo del producto absorbente desechable,	El método anterior puede comprender además deponer una lámina posterior por debajo del núcleo absorbente; deponer una lámina superior por encima del núcleo absorbente; y fijación de una porción de la lámina superior a una parte de la lámina posterior (Pág. 32, Col. 4, líneas 20 a 23).	No menciona
en el que dicho núcleo incluye una capa de adquisición (17) en contacto con dichas primera y segunda estructuras de almacenamiento de fluidos, y configuradas para absorber y distribuir fluido secretado por el portador hacia dicha primera y dicha segunda estructura de almacenamiento de fluidos.	No menciona	(B) colocar una capa de adquisición adyacente a la porción central de la capa absorbente (Reivindicación 13).

El documento D3 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 13, porque divulga un método para producir un artículo absorbente que tiene un elemento absorbente central (Pág. 32, Col. 4, líneas 8 a 10).

La diferencia entre la invención definida en la reivindicación 1 y el método para producir un artículo absorbente divulgado en D3, consiste en que este último no menciona que al núcleo se le adicione una capa de adquisición (17) en contacto con dichas primera y segunda estructuras de almacenamiento de fluidos.

El efecto técnico que logra la adición de una capa de adquisición en contacto con las superficies de almacenamiento de fluidos, es garantizar la absorción y distribución del fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos.

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: “¿Como modificar el artículo absorbente de D3 para garantizar la absorción y distribución del fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos?”.

Sin embargo, ya era conocido en el estado de la técnica artículos absorbentes que incluyen una capa de adquisición, puesto que, el documento D4 menciona una capa de adquisición dispuesta adyacente a dicha capa absorbente, capa de adquisición que tiene una parte central (Reivindicación 1), donde esta capa de adquisición de líquido puede ser de cualquier tipo de construcción, por ejemplo, cardado a través de aire unido, un material no tejido de dos componentes de unión por hilatura, una tela de fibras de reticulación de celulosa, con aberturas en 3D (tres dimensiones) de película, las fibras unidas con adhesivo, o similares (Párr. 0032), y sirve para gestionar, transportar, distribuir y/o altos volúmenes y velocidades de flujo de fluido en el núcleo (Párr. 0032).

En consecuencia, la persona del oficio normalmente versada en la materia enfrentada al problema técnico de cómo modificar el artículo absorbente de D3 de tal manera que absorba y distribuya el fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos, estaría motivada a incluir una capa de adquisición para gestionar, transportar, distribuir y/o altos volúmenes y velocidades de flujo de fluido en el núcleo como es divulgado en D4, en el artículo absorbente que es divulgado en D3, llegando así al objeto de la reivindicación 13, por lo cual se considera obvia.

Asimismo, el documento D3 divulga las características de la reivindicación dependientes

así:

- La reivindicación 14. En la figura 7 A, se observa en el cuerpo absorbente central se extiende desde la parte superior (172) hasta a parte inferior (174).

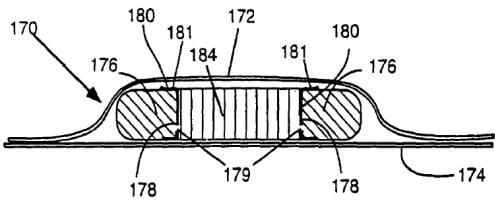


FIG. 7A

- La reivindicación 15. Las componentes verticales (178) de la barrera de mecha (180) se extienden hacia abajo desde la superficie del lado del cuerpo del núcleo absorbente para sólo una porción del espesor del miembro absorbente exterior (por ejemplo, 30% o más del espesor del miembro absorbente exterior , alternativamente 50% o más o 70% o más) (Pág. 55, Col. 50, líneas 61 a 66). Por otra parte como se observa la figura 1 A, el cuerpo absorbente central (22) se encuentra desde la lámina superior (12) hasta un plano intermedio en el cuerpo absorbente exterior (16).

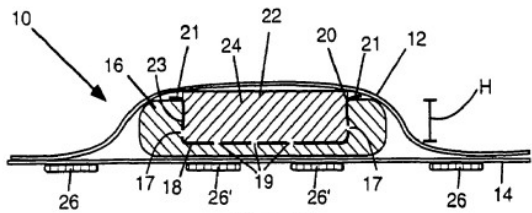


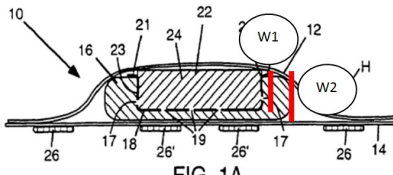
FIG. 1A

- La reivindicación 16 y 17. a) preparación de un elemento absorbente exterior, en el que el miembro absorbente exterior tiene un vacío central (Pág. 32, Col. 4, líneas 11 y 12), b) deponer una capa de un material de barrera flexible sobre el vacío central; y c) la inserción de una sección de material absorbente en el vacío central y sobre el material de barrera para formar un elemento absorbente central, de tal manera que una porción del material de barrera separa el elemento absorbente central desde el elemento absorbente exterior a lo largo de una distancia vertical (Pág. 32, Col. 4, líneas 13 a 19).
- La reivindicación 18, 19 y 20. Un núcleo absorbente que tiene una superficie del lado del cuerpo, el núcleo absorbente que comprende un elemento absorbente exterior que tiene un vacío dispuesta centralmente en el mismo, el vacío dispuesta centralmente abierta hacia el lado del cuerpo del artículo absorbente, y un miembro absorbente central dispuesta en el medio del miembro absorbente exterior y que se extiende en el vacío dispuesto centralmente (Reivindicación 1).

La reivindicación 21 consiste en: “Un núcleo absorbente para su uso en un producto absorbente (10), el núcleo absorbente que comprende: (...)” (Ver Págs. 9 y 10 del Radicado N° 14-094361-00010-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D3	D4
Un núcleo absorbente para su uso en un producto absorbente (10), el núcleo absorbente que comprende:	Un núcleo absorbente que tiene una superficie del lado del cuerpo, el núcleo absorbente que comprende un elemento absorbente exterior que tiene un vacío dispuesta centralmente en el mismo, el vacío dispuesta centralmente abierta hacia el lado del cuerpo del artículo absorbente, y un miembro	Un artículo absorbente que comprende el núcleo de la reivindicación 1, donde el artículo absorbente comprende además una lámina posterior situado adyacente al segundo lado de la porción central de la capa absorbente (Reivindicación 9).

	absorbente central dispuesta en el medio del miembro absorbente exterior y que se extiende en el vacío dispuesto centralmente (Reivindicación 1).	
una primera estructura de almacenamiento de fluido (21);	El núcleo absorbente comprende el elemento absorbente exterior (16) y el miembro absorbente central (22) (Pág. 52, Col. 43, líneas 58 y 59)	la capa absorbente que tiene una porción central (16) (Párr. 0021).
y una segunda estructura de almacenamiento de fluido (22),		No menciona
en donde el núcleo (16) tiene una dimensión de longitud (L), una dimensión de ancho (W), y una dimensión de espesor (t) ortogonal a las dimensiones de longitud y ancho,	Un artículo absorbente que tiene una dirección longitudinal, una dirección transversal, una dirección vertical sustancialmente normal a las direcciones longitudinal y transversal, y un lado del cuerpo (Reivindicación 1)	No menciona
y dicha primera estructura de almacenamiento de fluidos rodea, al menos de forma parcial, a dicha segunda estructura de almacenamiento de fluidos en la dimensión de espesor (t),	 Como se observa la figura 1 A, el espesor (W2) de las del cuerpo absorbente (16) rodea parcialmente al espesor (W1) del cuerpo absorbente (22).	No menciona
en el que dicho núcleo (16) incluye una capa de adquisición (17) en contacto con dichas primera y segunda estructuras de almacenamiento de fluidos, y configuradas para absorber y distribuir fluido secretado por el portador hacia dicha primera y dicha segunda estructura de almacenamiento de fluidos	No menciona	Una capa de adquisición dispuesta adyacente a dicha capa absorbente, capa de adquisición que tiene una parte central (Reivindicación 1). El núcleo también incluye una capa de adquisición (22) dispuesta adyacente a la capa absorbente (10) (Párr. 0021).
en donde la segunda estructura de almacenamiento de fluido (22) es más rígida que la primera estructura de almacenamiento de fluido (21).	El miembro absorbente central, siendo más grueso y más rígido que el miembro absorbente exterior en virtud de tener el doble de la cantidad de material (Pág. 64, Col. 67, líneas 56 a 59).	

El documento D3 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 21, porque divulga un núcleo absorbente que tiene una superficie del lado del cuerpo, el núcleo absorbente que comprende un elemento absorbente exterior que tiene un vacío dispuesta centralmente en el mismo, el vacío dispuesta centralmente abierta hacia el lado del cuerpo del artículo absorbente, y un miembro absorbente central dispuesta en el medio del miembro absorbente exterior y que se extiende en el vacío dispuesto centralmente (Reivindicación 1).

La diferencia entre la invención definida en la reivindicación 21 y el artículo absorbente divulgado en D3, consiste en que este último no menciona que el núcleo incluya una capa de adquisición en contacto con dichas superficies superiores de ambas primeras y segundas estructuras de almacenamiento de fluidos.

El efecto técnico que logra el incluir una capa de adquisición en contacto con las superficies

de almacenamiento de fluidos, es absorber y distribuir el fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos.

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: “¿Como modificar el artículo absorbente de D3 de tal manera que absorba y distribuya el fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos?”.

Sin embargo, ya era conocido en el estado de la técnica artículos absorbentes que incluyen una capa de adquisición, puesto que, el documento D4 menciona una capa de adquisición dispuesta adyacente a dicha capa absorbente, capa de adquisición que tiene una parte central (Reivindicación 1), donde esta capa de adquisición de líquido puede ser de cualquier tipo de construcción, por ejemplo, cardado a través de aire unido, un material no tejido de dos componentes de unión por hilatura, una tela de fibras de reticulación de celulosa, con aberturas en 3D (tres dimensiones) de película, las fibras unidas con adhesivo, o similares (Párr. 0032), y sirve para gestionar, transportar, distribuir y/o altos volúmenes y velocidades de flujo de fluido en el núcleo (Párr. 0032).

En consecuencia, la persona del oficio normalmente versada en la materia enfrentada al problema técnico de cómo modificar el artículo absorbente de D3 de tal manera que absorba y distribuya el fluido secretado por el portador hacia dicha primera y segunda estructura de almacenamiento de fluidos, estaría motivada a incluir una capa de adquisición para gestionar, transportar, distribuir y/o altos volúmenes y velocidades de flujo de fluido en el núcleo como es divulgado en D4, en el artículo absorbente que es divulgado en D3, llegando así al objeto de la reivindicación 21, por lo cual se considera obvia.

7. Conclusión

Los requisitos de Patentabilidad de la presente solicitud están afectados así:

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D2	US 418,449,8	1, 3 a 21	Nivel inventivo
D3	US 742,968,9	1, 2, 13 y 21	Nivel inventivo

8. Respuesta a los argumentos del señor solicitante

Con respecto al argumento de la solicitante al mencionar que las expresiones “lienzo”, “posterior”, “una dimensión de longitud”, “dimensión de ancho”, “una dimensión de espesor”, “las primeras y segundas estructuras de almacenamiento de fluidos”, “una superficie superior”, “dicho lienzo superior”, “superficie inferior”, “una capa de adquisición”, “superficies superiores”, “material super absorbente”, “primera estructura de almacenamiento de fluidos”, “superficie superior”, “superficie inferior”, “una superficie superior”, “una superficie inferior”, “un agujero”, “una porción interior”, “un primer espesor”, “una porción exterior”, “segundo espesor”, “primera y segunda superficies superiores”, “una primera densidad”, “segunda densidad”, “segundo almacenamiento de fluidos”, “de una periferia”, “la pulpa”, “tendido al aire”, “que recubre”, “espesor”, “paredes interiores”, “paredes exteriores”, pueden ser fácilmente entendidos por una persona medianamente versada en la materia en el contexto planteado y son necesarios con el fin de replicar la invención y entender por completo su alcance. Además, dichos términos se encuentran definidos de forma clara y precisa en la descripción de la presente solicitud. Esta Oficina considera que si bien son términos empleados, son generales y por tanto no especifican claramente la invención, puesto que, sugieren de forma imprecisa que la protección se extiende a otras posibles variaciones o modificaciones, por lo cual, no son patentables.

Ahora bien, frente a que las reivindicaciones brindan información suficiente puesto que

están soportadas en la descripción, es pertinente mencionar lo que el Tribunal de Justicia de la Comunidad Andina ha dicho sobre este tema, lo siguiente:

“[...] las reivindicaciones constituyen parte esencial de la respectiva solicitud, debido a que delimitan el campo de la patente y especifican la regla técnica que se desea patentar, razones por las cuales éstas deben ser suficientemente claras y concisas. Agrega la jurisprudencia del Tribunal que ‘Su fundamento radica pues en la descripción respectiva, de forma tal que el alcance de la reivindicación corresponda y se justifique con el contenido de aquella’. (Proceso 106-IP-2002, patente: BATERIA CON CONTROLADOR INCORPORADO, publicado en la Gaceta Oficial N° 892, de 31 de enero de 2003).”[1]

“[...] las reivindicaciones presentadas deben ser totalmente claras y precisas lo que significa que, en principio, las reivindicaciones deben especificar el invento por sí solas, sin necesidad de recurrir a otros elementos técnicos, sólo si la situación lo exige podrá contener elementos que sirvan para aclararla.”[2] – subrayado fuera de texto-

Complementado lo anterior, es de resaltar que las palabras elegidas para redactar las reivindicaciones son muy importantes, ya que la patente es un documento con contenido técnico, pero también es un documento jurídico, teniendo claro que las reivindicaciones, tal y como están redactadas, son las que definen el objeto de la protección, por lo que se reitera que los términos generales e imprecisos no son claros, ni concisos ya que no especifican un rango específico sobre el cual deba desarrollarse la invención, por lo tanto, para dar mayor claridad al capítulo reivindicatorio, es necesario que se tenga un término preciso o un rango concreto y aunque la solicitante menciona que dichos términos son conocidos en el campo técnico, no dan un rango apropiado, por el contrario, presenta una amplia gama de posibilidades y variaciones, por tanto no son aceptados.

En relación con los argumentos de la solicitante en relación al nivel inventivo en donde menciona que *“Como se explicó anteriormente, la nueva reivindicación independiente 1 ahora reclama que ‘la segunda estructura de almacenamiento de fluido es más rígida que la primera estructura de almacenamiento de fluido’2. En contraste, no existe una característica similar en ninguno de los documentos citados, por lo que dichos documentos no anticipan la totalidad de las características de la invención. En consecuencia, una persona versada en la materia basada únicamente en las enseñanzas de D1 y D2 no llegaría a la presente invención tal y como es reclamada.”*. Contrario a dicho argumento, es necesario aclarar que D1 menciona un artículo absorbente que incluye un material del cuerpo absorbente que incluye una fibra absorbente acumulada y una resina súper absorbente, en el que el material del cuerpo absorbente incluye secciones intercaladas que contiene una fibra absorbente recogida **en un estado denso la cual es menos densa que a fibra absorbente de las zonas que rodean a los tramos intercalados** (Párr. 0011) y **“la sección intercalada (13) es más gruesa que la porción correspondiente a la sección (10b) circundante en el material del cuerpo absorbente (12); la rigidez de la sección intercalada (13) configurado de esta manera es más pequeño que el de la sección continua (14) y tiene mejores propiedades de amortiguación** (Párr. 0035) –subrayado fuera del texto-. Con lo anterior se entiende que el cuerpo absorbente de la sección (13) es más rígido que el cuerpo absorbente de la sección (10b).

Por otro lado, con respecto a los argumentos donde mencionan que *“Las características de la reivindicación 1 presentan una ventaja con respecto al arte previo. En particular, la capa de adquisición es utilizada para absorber y distribuir el fluido secretado por el usuario hacia la primera y segunda estructura de almacenamiento de fluidos. Dado que se conoce que un fluido fluye de un entorno abierto o con una estructura de baja densidad capilar hacia una estructura de alta densidad capilar, el fluido recibido por la segunda estructura de almacenamiento de fluidos rígida de alta densidad no tendrá una tendencia a fluir hacia el exterior o hacia una zona de baja densidad como la primera estructura de almacenamiento de fluidos suave 61 (Ver en particular párrafo [0040] de la descripción). Por lo tanto, la contención general de fluido en el núcleo es mejorada”*. Cabe decir que contrario a estos

argumentos, ya era conocido en el arte precio configuraciones de artículos absorbentes en las cuales se mejora la absorción y la distribución, puesto que, D2 menciona una almohadilla absorbente secundaria (26) menos compacta que la almohadilla absorbente principal (12), la cual actúa como medios de transferencia hacia la almohadilla absorbente principal (Pág. 0004, Col. 2, líneas 42 a 45), puesto que, la superposición de dos almohadillas absorbentes de diferentes densidades de compactación permite una mayor absorción en la almohadilla absorbente más compacta, es decir, la almohadilla absorbente secundaria, actúa como un medio de distribución (Pág. 0005, Col. 3, líneas 18 a 24). Con lo cual quedan desvirtuados los argumentos de la solicitante.

Adicionalmente a lo anterior frente a que el problema técnico para realizar el nivel inventivo se debe realizar con respecto a la solicitud y no a las diferencias de la invención con el estado de la técnica, es pertinente mencionar lo que el Tribunal de Justicia de la Comunidad Andina ha dicho sobre este tema, lo siguiente:

“Se considerará que una invención tiene nivel inventivo, si para una persona del oficio normalmente versada en la materia técnica correspondiente, esa invención no hubiese resultado obvia ni se hubiese derivado de manera evidente del estado de la técnica”.

Complementado lo anterior, esta Oficina aclara que para evaluar si una invención no hubiese resultado obvia ni se hubiese derivado de manera evidente del estado de la técnica, se toma el documento más cercano del estado de la técnica a la invención y se evalúan las diferencias, teniendo en cuenta el efecto técnico que se obtiene y su posible obviedad en la solución; Ahora bien, cabe agregar que el documento D1 menciona “La presente invención se realizó en vista de estos problemas, y es una ventaja de los mismos para suprimir abultamiento que se produce debido a la hinchazón de la resina súperabsorbente dentro del artículo absorbente”, el cual está presentando un artículo absorbente mas cómodo al usuario., sin embargo dada la importancia de que el artículo absorbente 2 este contenido dentro del artículo absorbente 1, por se hace necesario evaluar los posibles efectos técnicos que se puedan tener con estas características, es así que esta Oficina aclara que se hace necesario realizar un nuevo estudio de patentabilidad que tenga en cuenta los cambios realizados y las explicaciones dadas por la solicitante.

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta (60) días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Si como respuesta a este requerimiento el solicitante llegara a modificar: i) el capítulo reivindicatorio, ii) la descripción de la invención a proteger, iii) o presente un nuevo capítulo reivindicatorio, y desee que se realice un nuevo examen de patentabilidad a esta modificación, no deberá pagar la tasa de modificación voluntaria pero sí la correspondiente a la tasa de examen de patentabilidad. En todo caso, el número de requerimientos por no patentabilidad estará supeditado a que el término del estudio de patentabilidad no sea superior a 18 meses, contados desde la publicación de la solicitud de patente de invención. Adicionalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones deberá pagar la tasa por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2016-05-03

Elaboró: Lady Paola Cortes

Revisó: Olga Ximena Benavides Salazar

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-094351						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los booleanos utilizados)						
Palabras clave utilizadas		Sanitary napkins, absorbent article, process, hygienic sanitary towel, absorbent foam materials, absorbent structure, airlaid nonwoven, airlaid absorbent products, absorbent core, acquisition layer, superabsorbent.				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		A61F13/15; A61F13/47; A61F13/49; A61F13/494; A61F13/535				
BASES DE DATOS CONSULTADAS.						
ESPAENET		Patent scope		Patbase		USPTO
Espatentes		JPO				
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
WIPO	29/11/2012	Absorbent article and method of producing the absorbent article EP2130521	1 – 22	Novedad		X
		Method of making preformed absorbent cores and absorbent cores produced thereby US2004087928	1 – 22	Novedad		X
		Sanitary napkin US4184498	1 – 22	Novedad	X	
		Method of making an absorbent composite and absorbent articles employing the same US2007197987	1 – 22	Novedad		X
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
Hygienic sanitary towel US4333465A						
Absorbent structure having improved fluid surge management and product incorporating same US5364382						
Pocket-like diaper or absorbent article US5176672A						
Absorbent foam materials for aqueous body fluids and absorbent articles containing such materials US5260345						
Absorbent article with center fill performance US2004102752						
Estación de conformación por tendido al aire con miembro deflector para producir materiales no tejidos ES2144622						
Process for producing carded and air-laid non-woven composite fabric US6273978						
Absorbent article with center fill performance US7429689						
Absorbent product with improved fit US 6866658						
Absorbent components having a fluid acquisition zone US 5855572						
Miembro de adquisición y distribución de fluidos para un núcleo absorbente ES 2128047						
Core for absorbent articles and method of making the same US2006040579						
Absorbent article with multiple core WO03099182						
Corrugated top layer for absorbent articles WO9600545						
Absorbent structure US 20060020250						

Flexible absorbent article with improved body fit US 20070027435

Observaciones

Fecha del reporte de búsqueda:

18/04/2016

RV: Cambio de clave y Tur... PB Pat Base

https://www.patbase.com/default.asp

1) Family number: 12/6693 (US4184498A) Similar • Translate • Full-text • Status • Citations

Title: [EN] Sanitary napkin

Abstract: Source: US4184498A [EN] Disposable sanitary napkin comprising an absorbent structure imprinted between an outer, impermeable film and an inner, permeable covering, by the edges of the film and the edges of the covering being joined together. Said absorbent structure comprises a main absorbent pad having the form of an oblong, tapering towards the rear, and having two side swellings and possibly a secondary absorbent pad less compact than the main absorbent pad. The invention also relates to a method of manufacturing such a sanitary napkin.

Classifications: [Classification Explorer](#)

International (IPC 8-9): A61F13/15 A61F13/472 (Advanced/Invention); A61F13/15 (Core/Invention); A61F13/56 (Core/Non-Invention)

International (IPC 1-7): A61F13/16 A61F13/18 A61F13/20 A61L15/00

CPC: A61F13/15634 A61F13/472 A61F13/47245 A61F13/534 A61F13/536 A61F13/537 A61F13/539 A61F13/58 A61F2013/15821 A61F2013/4587 A61F2013/51186 A61F2013/51409 A61F2013/53445 A61F2013/53721 A61F2013/53908 A61F2013/5395 A61F2013/582 A61F2013/53013

European: A61F13/15M3C A61F13/472 A61F13/472C1 A61F13/536 K61F13/15C3D1 K61F13/15E10 K61F13/15E10A K61F13/15E10C K61F13/15E2 K61F13/15E2A K61F13/15E2D K61F13/15E2D4 K61F13/15E4 K61F13/15H10 K61F13/45D K61F13/511F K61F13/56A K61F13/56A1

US: 128/290R 604/375 604/379 604/387 D24/125

Family: [Family Explorer](#)

Publication number	Publication date	Application number	Application date	Links
BE853933 A1	19771025	BE19770176996	19770425	
BR7702588 A	19780117	BR19770002588	19770425	
CA1115452 A1	19820105	CA19770276506	19770419	

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RV: Cambio de clave y Tur... PB Pat Base

https://www.patbase.com/default.asp

2) Family number: 3303661 (US5364382A) Similar • Translate • Full-text • Status • Citations

Title: [EN] Absorbent structure having improved fluid surge management and product incorporating same

Abstract: Source: US5364382A [EN] An absorbent article includes a retention portion for storing absorbed liquids, and a distinctive surge management portion. The surge management portion, which has a selected basis weight, is constructed to rapidly uptake and temporarily hold at least three (3) successive surges of liquid directed into the target zone of the article and then release each of the surges to the retention portion. The retention portion desorbs each input of liquid from the surge management portion and stores the liquid. Particular functional and structural parameters can further characterize the surge management portion of the absorbent article.

Classifications: [Classification Explorer](#)

International (IPC 8-9): A61F13/15 A61F13/53 (Advanced/Invention); A41B A61F (Subclass/Invention)

International (IPC 1-7): A41B A61F13/15 A61F13/20 A61F13/46 A61F13/53 A61F13/54 A61L15/16 A61L15/18 A61L15/24 A61L15/26 A61L15/28

CPC: A61F13/15585 A61F13/49009 A61F13/511 A61F13/535 A61F13/537 A61F13/5376 A61F13/539 A61F2013/15406 A61F2013/49031 A61F2013/51065 A61F2013/51409 A61F2013/51411 A61F2013/51443 A61F2013/5149 A61F2013/530007 A61F2013/530131 A61F2013/53027 A61F2013/530277 A61F2013/530299 A61F2013/53035 A61F2013/530569 A61F2013/530613 A61F2013/530941 A61F2013/53445 A61F2013/53721 A61F2013/53795

European: A61F13/49D2 A61F13/535 A61F13/537D K61F13/15J8E K61F13/15M2 K61F13/49D2H3 K61F13/511 K61F13/514A4 K61F13/514AA K61F13/514AA K61F13/514AA K61F13/514C4B K61F13/51N2 K61F13/534C K61F13/537 K61F13/537B5 K61F13/537H K61F13/539 K61F13/53L K61F13/53M K61F13/53M4D1A K61F13/53M4D1B K61F13/53M4E K61F13/53M7A K61F13/53Q3 K61F13/53Q4B K61F13/53SSA1

US: 604/358 604/366 604/370 604/378 604/384 604/385 21

Family: [Family Explorer](#)

Publication number	Publication date	Application number	Application date	Links
AT140866 E	19960815	AT19900108650T	19900508	
AU199053748 A1	19901108	AU19900053748	19900420	
AU199053748 B2	19900402	AU19900053748	19900420	

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3) Family number: 15015371 (US5176672A) Similar Translate Full-text Status Citations

Title: [EN] POCKET-LIKE DIAPER OR ABSORBENT ARTICLE

Abstract: Source: US5176672A [EN] A diaper or absorbent article comprising a topsheet, a backsheet, an absorbent between the topsheet and backsheet, and an elevating device for spacing the topsheet above the absorbent to form a pocket-like shape. The topsheet can have a generally U-shaped opening and the absorbent can have a hole therein, both of which receive and isolate waste material from the wearer. The absorbent side edges can have portions that are gatherable by elastic members attached in a stretched condition.

Classifications: Classification Explorer

International (ipc s-aj): A61F13/15 A61F13/494 A61F5/44 (Advanced/Invention); A61F5/44 (Advanced/Non-invention); A61F13/15 A61F5/44 (Core/Invention)

International (ipc i-7): A41B13/02 A61F13/15 A61F13/18 A61F13/46 A61F13/494 A61F5/44

CPC: A61F13/49413 A61F13/495 A61F13/51 A61F2013/15365 A61F2013/1539 A61F2013/4568 A61F2013/4587 A61F2013/49031 A61F2013/49076 A61F2013/49096 A61F2013/49493 A61F2013/5128 A61F2013/530481 A61F2013/53769 A61F13/49009

European: A61F13/495 A61F13/49D2 K61F13/15J8D K61F13/15J8D2 K61F13/45C4 K61F13/45D K61F13/494A1 K61F13/494F K61F13/495 K61F13/49D2H3 K61F13/49H5 K61F13/49W K61F13/51 K61F13/512F K61F13/537E1 K61F13/53Q

US: 604/378 604/385.1 604/385.19 604/391

Family: Family Explorer

Publication number	Publication date	Application number	Application date	Links
AU199187751 A1	19920514	AU19910087751	19911111	
AU199350393 A1	19940113	AU19930050393	19931101	
AU199350394 A1	19940113	AU19930050394	19931101	

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4) Family number: 31989009 (US5260345A) - View Extended Family Similar Translate Full-text Status Citations

Title: [EN] ABSORBENT FOAM MATERIALS FOR AQUEOUS BODY FLUIDS AND ABSORBENT ARTICLES CONTAINING SUCH MATERIALS

Abstract: Source: US5260345A [EN] Disclosed are absorbent foam materials suitable for use as or in the absorbent cores of absorbent articles, such as diapers which absorb and retain aqueous body fluids. Such foam materials comprise hydrophilic, flexible open-celled structures which are preferably prepared by polymerizing high internal phase (HIPE) water-in-oil emulsions. Such foam materials have a pore volume of from about 12 to 100 mL/g, and a capillary suction specific surface area of from about 0.5 to 5.0 m²/g. These materials also exhibit a resistance to compression deflection such that a confining pressure of 5.1 kPa produces after 15 minutes a strain of from about 5 percent to 95 percent compression when the material is saturated at 37 DEG C. to its free absorbent capacity with synthetic urine.

Classifications: Classification Explorer

International (ipc s-aj): A61F13/15 A61F13/53 A61F13/56 A61L15/22 A61L15/42 C08F12/00 C08F2/32 C08F20/18 C08F212/06 C08F212/08 C08F212/34 C08F220/10 C08F236/04 C08J9/00 C08L101/00 C08L25/08 (Advanced/Invention); C08F12/00 C08J9/00 C08L101/00 (Advanced/Non-invention); A61F13/15 A61F13/56 A61L15/16 C08F12/00 C08F2/32 C08F20/00 C08F212/00 C08F220/00 C08F236/00 C08J9/00 C08L101/00 (Core/Invention)

International (ipc i-7): A41D20/00 A61F13/15 A61F13/46 A61F13/53 A61L15/00 A61L15/16 A61L15/22 A61L15/24 A61L15/26 A61L15/42 B32B3/26 C08F2/32 C08F20/18 C08F212/06 C08F212/08 C08F212/34 C08F236/04 C08F36/04 C08J9/00 C08J9/28 C08L101/00 C08L25/08

CPC: Y10S521/905 Y10S521/918 A61F13/49012 A61F13/532 A61F13/535 C08F2/32 A61F13/15203 A61F13/53 A61F13/5622 A61F2013/1539 A61F2013/530007 A61F2013/530737 A61F2013/53081 A61L15/425 Y10T428/249975 Y10T428/249978 Y10T428/249991 Y10T428/249993 Y10T442/647 Y10T442/649 A61F2013/53003 A61F2013/53045 A61F2013/53046 A61F2013/53047 A61F2013/53048 A61F2013/53070 A61F2013/53080 A61F2013/53083 A61F2013/53085 Y10T428/24998

European: A61F13/15 A61F13/49D2 K61F13/53 A61F13/532 A61F13/535 A61F13/56 C

Family: Family Explorer

Publication number	Publication date	Application number	Application date	Links
US2004102752 AA	20040527	US20030662251	20030915	
US7429695 BB	20080930	US20030662251	20030915	

Priority: Priority Map Extended Priority Map

US19980165875 19981002 US20030662251 20030915

Probable Assignee: KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK WORLDWIDE INC.; LINDSAY JEFFREY D.; BEDNARZ JULIE M.; CHEN FUNG JOU; DIPALMA JOSEPH

Inventor(s): LINDSAY JEFFREY D.; DIPALMA JOSEPH; CHEN FUNG JOU; BEDNARZ JULIE M

Agent(s): ARMSTRONG TEASDALE LLP

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22) Family number: 30652257 (US2004111074A) Similar Translate Full-text Status Citations

Title: [EN] ABSORBENT ARTICLE WITH CENTER FILL PERFORMANCE

Abstract: Source: US2004102752A [EN] An absorbent article comprising a central absorbent member and a lateral wicking barrier for inhibition of wicking from the central regions of the article to an outlying outer absorbent member. The wicking barrier has a vertical component for prevention of radial wicking in the plane of the article and thus promotes center filling of the article with fluid and reduces the likelihood of leaks from the sides of the article. The wicking barrier can also have a horizontal component to prevent leakage, redirect fluid flow, and improve fit and performance of the article. In one embodiment, the central absorbent member is a concentric absorbent structure having alternating rings of barrier material and absorbent material, including a spiral wound composite formed from a layer of barrier material wound around an absorbent material and then sliced to provide a thin absorbent layer having high permeability in the thickness direction but low permeability in the plane due to the barrier material.

Classifications: Classification Explorer

International (ipc s-aj): A61F13/15 A61F13/472 A61F13/49 A61F13/511 A61F13/514 A61F13/515 A61F13/53 A61F13/534 A61F13/539 A61F5/44 (Advanced/Invention); A61F13/15 A61F5/44 (Core/Invention)

International (ipc i-7): A61F13/15 A61F13/20

CPC: Y10T428/24273 A61F13/53704 A61F13/4751 A61F13/4755 A61F13/4758 A61F13/51474 A61F13/532 A61F13/5323 A61F13/53409 A61F13/535 A61F13/536 A61F13/53743 A61F13/53752 A61F13/5376 A61F13/539 A61F2013/4568 A61F2013/53782

European: A61F13/475A A61F13/475A2 A61F13/475B A61F13/514C A61F13/532 A61F13/532B A61F13/534B A61F13/535 A61F13/536 A61F13/537A A61F13/537C A61F13/537D A61F13/539 K61F13/45C4 K61F13/37E4

US: 428/131 604/358 604/378 604/378P 604/383 604/385.01 604/385.08 604/385.101

Family: Family Explorer

Publication number	Publication date	Application number	Application date	Links
US2004102752 AA	20040527	US20030662251	20030915	
US7429695 BB	20080930	US20030662251	20030915	

Priority: Priority Map Extended Priority Map

US19980165875 19981002 US20030662251 20030915

Probable Assignee: KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK WORLDWIDE INC.; LINDSAY JEFFREY D.; BEDNARZ JULIE M.; CHEN FUNG JOU; DIPALMA JOSEPH

Inventor(s): LINDSAY JEFFREY D.; DIPALMA JOSEPH; CHEN FUNG JOU; BEDNARZ JULIE M

Agent(s): ARMSTRONG TEASDALE LLP

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Patentes

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Process for producing carded and air-laid non-woven composite fabric

US 6273978 B1

RESUMEN

The present invention provides a process for producing a carded and air-laid non-woven composite fabric. First, a fiber is subjected to carding treatment through a carding machine to form a carded web. Then, a fiber, powder, or particulate material is subjected to air-laying through an air-laying device to form an air-laid web. The sequence of carding and air-laying steps can be exchanged, and the carding machine and the air-laying device are disposed on the same production line. Finally, the above webs are consolidated into a non-woven composite fabric. In the present invention, since carding and air-laying are conducted on the same production line, the procedure for producing air-laid webs off-line can be omitted. Therefore, the thermoplastic polymer amount added to increase the web strength can be decreased, thus decreasing the production cost.

Número de publicación US6273978 B1
Tipo de publicación Concesión
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Inventores Jung Chi Tai
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US7429689 (B2)

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INPADOC patent family

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Bibliographic data: US7429689 (B2) — 2008-09-30

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Absorbent article with center fill performance

Page bookmark US7429689 (B2) - Absorbent article with center fill performance

Inventor(s): CHEN FUNG-JOU [US], BEDNARZ JULIE M [US], LINDSAY JEFFREY D [US], DIPALMA JOSEPH [US] ±

Applicant(s): KIMBERLY CLARK CO [US] ±

Classification: - international: A61F13/13; A61F13/14; A61F13/15; A61F13/16; A61F13/17; A61F13/18; A61F13/19; A61F13/20; A61F13/21; A61F13/22; A61F13/23; A61F13/24; A61F13/25; A61F13/26; A61F13/27; A61F13/28; A61F13/29; A61F13/30; A61F13/31; A61F13/32; A61F13/33; A61F13/34; A61F13/35; A61F13/36; A61F13/37; A61F13/38; A61F13/39; A61F13/40; A61F13/41; A61F13/42; A61F13/43; A61F13/44; A61F13/45; A61F13/46; A61F13/47; A61F13/48; A61F13/49; A61F13/50; A61F13/51; A61F13/52; A61F13/53; A61F13/54; A61F13/55; A61F13/56; A61F13/57; A61F13/58; A61F13/59; A61F13/60; A61F13/61; A61F13/62; A61F13/63; A61F13/64; A61F13/65; A61F13/66; A61F13/67; A61F13/68; A61F13/69; A61F13/70; A61F13/71; A61F13/72; A61F13/73; A61F13/74; A61F13/75; A61F13/76; A61F13/77; A61F13/78; A61F13/79; A61F13/80; A61F13/81; A61F13/82; A61F13/83; A61F13/84; A61F13/85; A61F13/86; A61F13/87; A61F13/88; A61F13/89; A61F13/90; A61F13/91; A61F13/92; A61F13/93; A61F13/94; A61F13/95; A61F13/96; A61F13/97; A61F13/98; A61F13/99; A61F14/00; 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Lady Cortes

Search history

Search 1: PN=(WO20130503529) (Results 0)

Search 2: PN=(WO2013050359) (Results 1)

Search 3: [SP]: 1. a disposable absorbent product comprising: a backsheet a topsheet overlaying said backsheet and a core disposed between said backsheet and said topsheet for retaining fluid secreted by a wearer of the absorbent product, said core including first and second fluid storage structures, each having a respective length dimension, a respective width dimension, and a respective thickness dimension orthogonal to said respective length and width dimensions, wherein: said respective thickness dimensions of said first and second fluid storage structures overlap one another, said second fluid storage structure extends along a longitudinal axis, said second fluid storage structure has a head portion and a pair of leg portions longitudinally opposed said head portion, and each of said leg portions extends along a minor axis defining an acute included angle with said longitudinal axis. 2. the disposable absorbent product of claim 1, wherein said leg portions are oriented so as to define an acute included angle between said minor axes. 3. the disposable absorbent product of claim 1, wherein said included angle is less than about 40 degrees. 4. the disposable absorbent product of claim 3, wherein said included angle is less than about 20 degrees. 5. the disposable absorbent product of claim 1, wherein the length of each leg portion is less than 10 percent of the overall length of said second fluid storage structure. 6. the disposable absorbent product of claim 1, wherein the length of each leg portion is greater than 20 percent of the overall length of said second fluid storage structure. 7. the disposable absorbent product of claim 1, wherein each of said leg portions has an inwardly-facing wall, said inwardly-facing walls defining a generally v-shape juncture between said leg portions. 8. the disposable absorbent product of claim 1, wherein said second fluid storage structure includes an arcuate depression defining a juncture between said leg portions. 9. the disposable absorbent product of claim 1, wherein said second fluid storage structure includes a central portion between said head portion and said leg portions, said head portion being wider than said central portion. 10. the disposable absorbent product of claim 1, wherein said head portion has a generally oval shape. 11. the disposable absorbent product of claim 1, wherein said head portion has the general shape of a heart. 12. the disposable absorbent product of claim 1, wherein said head portion includes a pair of arm portions and an arcuate depression defining a juncture there between. 13. the disposable absorbent product of claim 1, wherein said second fluid storage structure has a centrally-located opening extending through the thickness thereof. 14. the disposable absorbent product of claim 1, wherein said first fluid storage structure has an hourglass shape. 15. a disposable absorbent product comprising: a backsheet a topsheet overlaying said backsheet and a core disposed between said backsheet and said topsheet for retaining fluid secreted by a wearer of the absorbent product, said core including first and second fluid storage structures, each having a respective length dimension, a respective width dimension, and a respective thickness dimension orthogonal to said respective length and width dimensions, wherein: said respective thickness dimensions of said first and second fluid storage structures overlap one another, said second fluid storage structure has a head portion and a pair of leg portions longitudinally opposed said head portion, each of said leg portions extends along a minor axis defining an included angle of less than 40 degrees there between, and each of said leg portions has a length greater than 20 percent of the overall length of said second fluid storage structure. 16. the disposable absorbent product of claim 15, wherein said head portion is generally oval-shaped. 17. the disposable absorbent product of claim 15, wherein said head portion is generally heart-shaped. 18. the disposable absorbent product of claim 15, wherein said second fluid storage structure includes a centrally located, elongate opening extending through the thickness thereof. 19. the disposable absorbent product of claim 15, wherein said first and second fluid storage structures are spaced from one another along at least a portion of the periphery of said second fluid storage structure. 20. a disposable absorbent product comprising: a backsheet a topsheet overlaying said backsheet and a core disposed between said backsheet and said topsheet for retaining fluid secreted by a wearer of the absorbent product, said core having a length dimension, a width dimension, and a thickness dimension orthogonal to the length and width dimensions, said core including first and second fluid storage structures, said first fluid storage structure at least partially surrounding said second fluid storage structure in the thickness dimension, wherein: said second fluid storage structure has a generally heart-shaped head portion and a pair of leg portions longitudinally opposed said head portion, each of said leg portions has a length less than 10 percent of the overall length of said second fluid storage structure, and said second fluid storage structure includes an arcuate depression defining a juncture between said leg portions. 21. an absorbent core for use in an absorbent product, the absorbent core comprising: a first fluid storage structure and a second fluid storage structure,

wherein said first and second fluid storage structures have respective length, width, and thickness dimensions, each said thickness dimension being orthogonal to said respective length and width dimensions, said respective thickness dimensions of said first and second fluid storage structures overlap one another, said second fluid storage structure extends along a longitudinal axis, and includes a head portion and a pair of leg portions longitudinally opposed said head portion, and each of said leg portions extends along a minor axis defining an acute included angle with said longitudinal axis. (Results 31)

Search
4: PN=(WO2013050359) (Results 1)

Search
5: TAC=(absorbent core) (Results 5384)

Search
6: TAC=(two) (Results 100000)

Search
7: TAC=(absorbent article) (Results 10423)

Search
8: TAC=(7 and 6 and 5) (Results 1376)

Search
9: TAC=(acquisition layer) (Results 556)

Search
10: TAC=(8 and 9) (Results 111)

Search
11: TAC=(superabsorbent) (Results 4407)

Search
12: TAC=(10 and 11) (Results 51)

Title: Absorbent structure designed for absorbing body fluids

Abstract:

Source: US4699619A An absorbent structure designed for use in absorbent pads such as diapers is disclosed. According to a first aspect of the invention, absorbent pads are provided which comprise at least **two** layers of cellulosic fibers (fluff) of different densities or average pore size ranges. When the absorbent



structure is incorporated in a diaper, the lower density element extends to the full length and width dimensions of the normal absorbent component of the diaper. The higher density element lies beneath at least a portion of the lower density element. According to various embodiments of the present invention, it can run as a strip from the target zone to the back waist of a diaper, it can run along a central portion extending the whole length of the diaper, or it can underlie the entirety of the lower density element. The higher density element (or the element having a lower average pore size) wicks waste fluid from a lower central portion of the diaper, and thereby transports the fluid upwardly and also transfers it to the lower density element (or the element of greater average pore size). According to a second aspect of the invention, which may be incorporated with the first aspect just described, a portion of **superabsorbent** material is placed beneath the higher density layer, (or layer of lower average pore size), such that an additional reservoir for absorbing waste fluid is provided.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49 A61F13/53 A61F5/44

B01J20/28 (Advanced/Invention);

A61F5/44 (Advanced/Non-invention);

A61F13/15 (Core/Invention);

A41B A61F B32B (Subclass/Invention)

International (IPC 1-7): A41B13/02 A61F13/15 A61F13/16 A61F13/18 A61F13/46 A61F5/44

B32B23/00 B32B23/02 B32B23/10 B32B33/00

CPC: A61F13/49009 A61F13/535 A61F13/53747 A61F2013/15439 A61F2013/49076

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European: A61F13/49D2 A61F13/535 A61F13/537B2 A61F13/537C2 K61F13/15J8E K61F13/15J8H

K61F13/15J8H2 K61F13/49H5 K61F13/534C K61F13/537B5 K61F13/53L2 K61F13/53Q2B

K61F13/53Q6

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Family:

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Priority:

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EP19850103911 19850401	EP19850103911 19850401	CA19850477391 19850325
GB19850009580 19850415	JP19850079141 19850413	US19870083475 19870806
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Probable Assignee: KIMBERLY CLARK WORLDWIDE INC

Assignee(s): (std): KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK CORP ; KIMBERLY CLARK CORP NEENAH WIS US ; KIMBERLY CLARK WORLDWIDE INC ; BERNARDIN LEO J ; KIMBERLY CLARK A CORP OF DE CORP

Inventor(s): (std): BERNARDIN LEO J ; LEO J BERNARDIN ; BERNARDIN LEO JOSEPH

Inventor(s): REO JIEI BAANAADIN ; REO JEI BAANAADIN ; LEO JOSEPH BERNARDIN

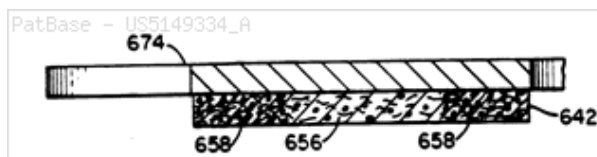
Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BORDEN LADNER GERRAIS LLP

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

Title: **Absorbent articles** containing interparticle crosslinked aggregates

Abstract:

Source: US5149334A **Absorbent articles** such as diapers or sanitary napkins incorporating particulate, absorbent, polymeric compositions comprising interparticle crosslinked aggregates. The interparticle crosslinked aggregates comprise precursor particles of substantially water-insoluble, absorbent, hydrogel-forming, polymer material; and an interparticle crosslinking agent reacted with the polymer material of the precursor particles to form crosslink bonds between the precursor particles. The polymeric compositions of the present invention may be incorporated into **absorbent articles** as the sole absorbent material; as an **absorbent core** comprising a mixture of fiber material and discrete particles of the polymeric composition; or as a laminate (a layered **absorbent core**) containing such polymeric compositions. The performance of **absorbent articles** is enhanced by the use of such polymeric compositions due to the high rate of fluid uptake and minimal gel blocking properties of the interparticle crosslinked aggregates.



Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/49 A61F13/53 A61F13/56 A61L15/00

A61L15/16 A61L15/18 A61L15/22 A61L15/24 A61L15/42 A61L15/60 B32B23/02 C08G18/60

C08G18/64 C08G59/18 C08L101/00 C08L51/02 (Advanced/Invention);

A61F13/56 A61L15/00 A61L15/16 C08L101/00 (Advanced/Non-invention);

A61F13/00 A61F13/15 A61L15/00 A61L15/16 B32B23/00 C08G18/00 C08G59/00 C08L101/00

C08L51/00 (Core/Invention);

A61F13/56 (Core/Non-invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F13/46 A61F13/49 A61F13/53

A61L15/16 A61L15/18 A61L15/20 A61L15/22 A61L15/24 A61L15/60 B01J20/26 B01J20/28

B32B23/02 B32B27/00 B32B27/06 B32B5/00 B32B5/16 C08G18/64 C08G59/18 C08J3/22 C08J5/04

C08K7/02 C08L51/02

CPC: A61F2013/15536 A61F2013/00519 D01H13/30 A61F2013/530437 Y10S428/913 A61F13/49

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European: A61F13/00 A61F13/535 A61F13/537B4 A61F13/537C2 A61F13/537C4 A61L15/18

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K61F13/15J8P8 K61F13/15M11 K61F13/45C4 K61F13/49 K61F13/49D2 K61F13/49D2H3

K61F13/49D2H4 K61F13/49H5 K61F13/51 K61F13/511D2 K61F13/511D6 K61F13/512

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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WO1992US02905	19920409	US19930149173	19931108	US19930080993	19930622

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): GILKESON GARY B ; PROCTER AND GAMBLE CO ; DZE PROKTER EHND GEHMBL KOMPANI ; LAHRMAN FRANK HENRY ; GILKESON GARY BERNARD ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTOR AND GAMBLE COMPANY ; ROE DONALD C ; THE PROCTER AND GAMBLE COMPANY ; TEH PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO US ; THE PROCTER AND GAMBLE CO US ; THE PROCTER AND GAMBLE CO CINCINNATI ; ROE DONALD CARROLL ; BERG CHARLES JOHN ; DRAGOO JERRY L ; DRAGOO JERRY LAYNE

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Inventor(s): C J BERG ; BERG CHARLES JOHN US ; FREHNK GENRI LEHRMAN[US] ; DONAL'D KEHRROLL RO ; DONAL'D KEHRROL ROU[US] ; CHARL'Z DZHON BERG[US] ; D C ROE ; DRAGOO JERRY LAYNE US ; DONALD CARROLL ROE ; FRANK HENRY LAHRMAN ; F H LAHRMAN ; ROE DONALD CAROLL US ; GARY BERNARD GILKESON ; G B GILKESON ; JERRY LAYNE DRAGOO ; J L DRAGOO ; GILKESON GARY BERNARD US ; LAHRMAN FRANK HENRY US

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; 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 SU TD TG

Title: HYGIENIC **ABSORBENT ARTICLE** HAVING MELTBLOWN COMPONENTS

Abstract:

An **absorbent article**, such as a diaper, sanitary napkin, adult incontinent device, and the like having meltblown components is provided. The **absorbent article** preferably comprises a liquid pervious thermoplastic apertured film topsheet, a liquid impervious backsheet, an **absorbent core**, and a fibrous acquisition web of spunlaced nonwoven fibers.

The **absorbent core** is positioned between the topsheet and backsheet which are joined at least about a portion of the periphery of the **absorbent article** and the topsheet is fused to the acquisition web at discrete points of attachment. The acquisition web is positioned between the topsheet and the **absorbent core**.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/511 A61F13/53 A61F13/538

D04H3/03 (Advanced/Invention);

A61F13/15 D04H3/02 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/46 A61F13/49 A61F13/53 D04H1/54 D04H3/03

CP: A61F13/47218 A61F13/51 A61F13/511 A61F13/51113 A61F13/5116 A61F13/512 A61F13/5126

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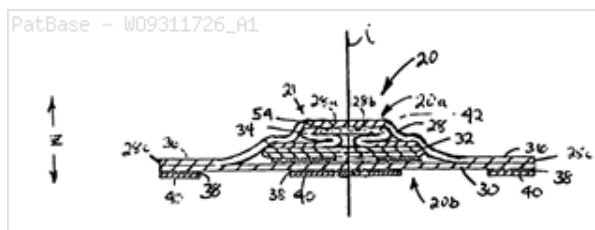
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Family:

Publication number	Publication date	Application number	Application date
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WO9311726 A1	19930624	WO1992US09753	19921106

Priority:

US19910810774 19911217 US19920944764 19920914 US19920957575 19921007
WO1992US09753 19921106 AU19920030741 19921106

Probable Assignee: PROCTER AND GAMBLE

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

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

Inventor(s): (std): BUELL KENNETH BARCLAY ; CARRIER MICHAEL EDWARD ; COOPER JOHN THOMAS ; COSTEA KARIN HELENE ; CREE JAMES WILLIAM ; DAGHER KAMAL JOSEPH ; DAVID JENNIFER LYNN ; AHR NICHOLAS ALBERT ; BROWN BRUCE ; BROWN BRUCE B ; MARSHALL ROBERT LEE E ; MILLS SUE ANN ; NOEL JOHN RICHARD ; OSBORN THOMAS WARD ; PLUMLEY JULIAN ; REISING GEORGE STEPHEN ; RUUSKA ROBERT WILLIAM ; TWOHY ELIZABETH BILYEU

Inventor(s): ROBERT LEE E MARSHALL ; BRUCE BROWN ; JAMES WILLIAM CREE ; JENNIFER LYNN DAVID ; JOHN THOMAS COOPER ; JULIAN PLUMLEY ; KARIN HELENE COSTEA

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS

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 IE IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG UA

Title: Individually wrapped disposable **absorbent article** which becomes elasticized when unwrapped

Abstract:

Source: US5295988A An article of manufacture is disclosed for absorbing liquids, particularly body fluids such as menses. The disclosed article is disposable and has a wrapper associated therewith. An elastic material is secured to the backsheet and is maintained in a substantially tensioned state until separation of the wrapper from the backsheet. Upon separation of the wrapper from the backsheet the tension in the elastic member is released causing the disposable **absorbent article** to form an upwardly cupped configuration to conform more closely to the wearer's body.

Classifications:

International (IPC 8-9): A61F13/15

A61F13/472 A61F5/44

B65D85/18 (Advanced/Invention);

A61F13/15 A61F5/44 B65D85/18 (Advanced/Non-invention);

A61F13/15 A61F5/44

B65D85/18 (Core/Invention);

A61F13/15 (Core/Non-invention)

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

A61F13/46 A61F13/472 A61F13/551 A61F5/44

B31D B65D85/18

CPC: A61F13/47263 A61F13/49009 A61F13/537

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European: A61F13/472D A61F13/551B2B

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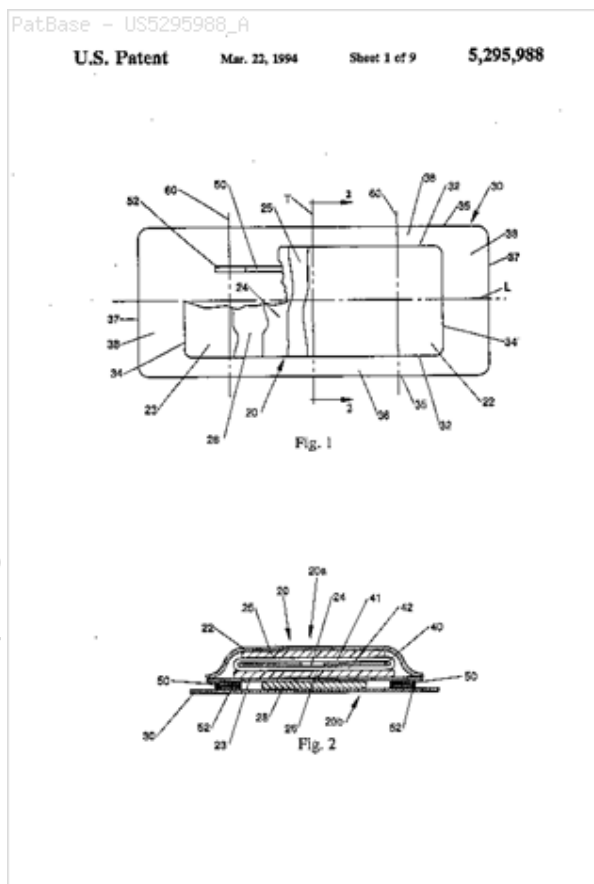
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Family:

Publication number	Publication date	Application number	Application date
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SG54168 A1	19981116	SG19960003040	19930825
TH14825 A	19941028	TH19931001563	19930901
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WO9405242 A1	19940317	WO1993US07993	19930825

Priority:

US19920941341 19920904 WO1993US07993 19930825

Probable Assignee: PROCTER AND GAMBLE

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

Assignee(s): THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; ROY KIM MARIE ; MUCKENFUHS DELMAR RAY

Inventor(s): (std): DELMAR RAY MUCKENFUHS ; DR MUCKENFUHS ; KIM MARIE ROY ; KM ROY ; MARIE ROY KIM ; MUCKENFUHS D R ; MUCKENFUHS DEL MAR RAY ; MUCKENFUHS DELMAR ; MUCKENFUHS DELMAR R ; MUCKENFUHS DELMAR RAY ; RAY MUCKENFUHS DEL MAR ; ROY K M ; ROY KIM ; ROY KIM M ; ROY KIM MARIE ; MUCKENFUNS DELMAR R

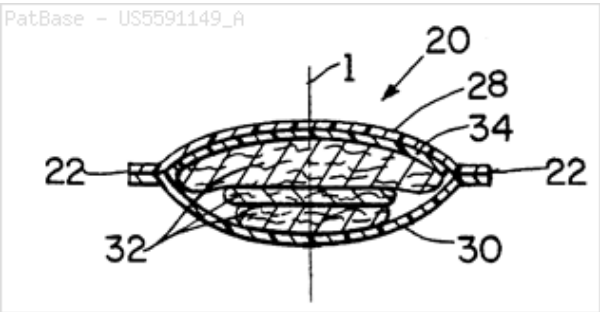
Inventor(s): Ray ; ROY KIM MARIE LYNN MA 01904 US ; MUCKENFUHS DELMAR RAY MIDDLETOWN OH 45044 US ; MUCKENFUHS ; K M ROY ; D R MUCKENFUHS ; Delmar

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; 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

Title: Absorbent article having meltblown components

Abstract:
Source: US5591149A An absorbent article, such as a diaper, sanitary napkin, adult incontinent device, and the like having meltblown components is provided. The absorbent articles preferably comprises a liquid pervious thermoplastic apertured film topsheet, a liquid impervious backsheet, an absorbent core, and a fibrous acquisition web of spunlaced nonwoven fibers. The absorbent core is positioned between the topsheet and backsheet which are joined at least about a portion of the periphery of the absorbent article and the topsheet is fused to the acquisition web at discrete points of attachment. The acquisition web is positioned between the topsheet and the absorbent core.



Classifications:
International (IPC 8-9): A61F13/15 (Advanced/Invention)
International (IPC 1-7): A61F13/15 A61F13/54
CPC: A61F13/53717 A61F13/47218 A61F13/51113 A61F13/5116 A61F13/512 A61F13/5126 A61F13/51305 A61F13/535 A61F13/53713 A61F13/53747 A61F13/539 A61F2013/15495 A61F2013/15504 A61F2013/15934 A61F2013/4708 A61F2013/51061 A61F2013/51083 A61F2013/51085 A61F2013/51165 A61F2013/530153 A61F2013/530445 A61F2013/53445 A61F2013/53726 A61F2013/53739 A61F2013/53782 A61F2013/53786 A61F2013/53916 A61F2013/53925 A61F2013/5395
European: A61F13/472B A61F13/512 A61F13/513B A61F13/535 A61F13/537B2 A61F13/537B4 A61F13/537C2 A61F13/539 K61F13/15H11 K61F13/15H6 K61F13/15J8P1 K61F13/15J8P2 K61F13/15M11H K61F13/47D K61F13/511C K61F13/511E K61F13/511E1 K61F13/512C K61F13/51N1 K61F13/51P2 K61F13/51P3 K61F13/534C K61F13/537B5A K61F13/537B5D K61F13/537E4 K61F13/537E5 K61F13/539A1 K61F13/539A2 K61F13/539C K61F13/53M1B K61F13/53P1
US: 604/368 604/370 604/378 604/381

Family:

Publication number	Publication date	Application number	Application date
CN1085418 A	19940420	CN19921014631	19921111
US5591149 A	19970107	US19920957575	19921007

Priority:
US19920957575 19921007

Probable Assignee: PROCTER AND GAMBLE CO
Assignee(s): (std): PROCTER AND GAMBLE
Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE GMBH ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY
Inventor(s): (std): BROWN BRUCE ; COOPER JOHN T ; COOPER JOHN THOMAS ; CREE JAMES W ; CREE JAMES WILLIAM ; DAVID JENNIFER ; MARSHALL III ROBERT E L ; MARSHALL ROBERT LEE E ; PLUMLEY JULIAN A
Inventor(s): ROBERT LEE E MARSHALL ; JAMES WILLIAM CREE ; JOHN THOMAS COOPER

Title: HYGIENIC **ABSORBENT ARTICLE** HAVING MELTBLOWN COMPONENTS

Abstract:

Source: CA2125645A An **absorbent article**, such as a diaper, sanitary napkin, adult incontinent device, and the like having meltblown components is provided. The **absorbent article** preferably comprises a liquid pervious thermoplastic apertured film topsheet, a liquid impervious backsheet, an **absorbent core**, and a fibrous acquisition web of spunlaced nonwoven fibers. The adsorbent core is positioned between the topsheet and backsheet which are joined at least about a portion of the periphery of the **absorbent article** and the topsheet is fused to the acquisition web at discrete points of attachment. The acquisition web is positioned between the topsheet and the **absorbent core**.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/511 A61F13/53 A61F13/538 D04H3/03 (Advanced/Invention)

International (IPC 1-7): A61F13/46

CPC: A61F13/53717 A61F13/47218 A61F13/51

A61F13/511 A61F13/51113 A61F13/5116

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A61F2013/53983

European: A61F13/472B A61F13/512 A61F13/513B A61F13/531 A61F13/535 A61F13/537B2

A61F13/537B4 A61F13/537C2 A61F13/537D A61F13/539 K61F13/15F2 K61F13/15H11

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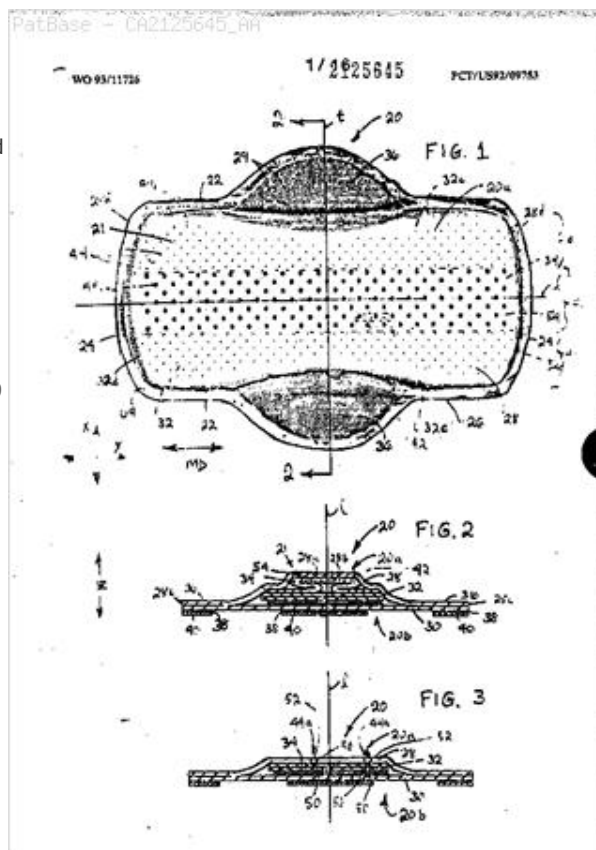
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Family:

Publication number	Publication date	Application number	Application date
CA2125645 AA	19940610	CA19922125645	19921106



CA2125645 C

19981124

CA19922125645

19921106

Priority:

US19910810774 19911217
WO1992US09753 19921106

US19920944764 19920914

US19920957575 19921007

Probable Assignee: PROCTER AND GAMBLE

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

Assignee(s): PROCTER AND GAMBLE COMPANY THE ; PLUMLEY JULIAN ASHTON ; PROCTER AND GAMBLE GMBH ; PROCTER AND GAMBLE CO ; BROWN BRUCE ; COOPER JOHN THOMAS ; CREE JAMES WILLIAM ; DAVID JENNIFER LYNN ; MARSHALL ROBERT LEE E III

Inventor(s): (std): MARSHALL ROBERT L E ; DAVID JENNIFER LYNN ; DAVID JENNIFER L ; CREE JAMES WILLIAM ; CREE JAMES W ; COSTEA KARIN H ; COOPER JOHN THOMAS ; COOPER JOHN T ; BROWN BRUCE ; PLUMLEY JULIAN ASHTON ; PLUMLEY JULIAN A ; MARSHALL ROBERT LEE E III

Inventor(s): MARSHALL ROBERT LEE E

Title: Fishing spinning reel with spool having tapered portion and guide

Abstract: Source: US5746382A A fishing spinning reel in which is so designed that the fishing line is prevented from being bound together when let out of the reel, whereby the fishing line is let out of the reel stably at all times. The spool (1) includes a tapered portion (4) which is gradually smaller in diameter towards the rear end, thus providing a fishing-line winding surface (2), and a guide (3) at the front end which, when the fishing line is let out of the reel, prevents the fishing line from touching a wound fishing-line surface (2a) formed by the fishing line wound on the spool.

Classifications:

International (IPC 8-9): A01K89/01

A61F13/15 (Advanced/Invention);

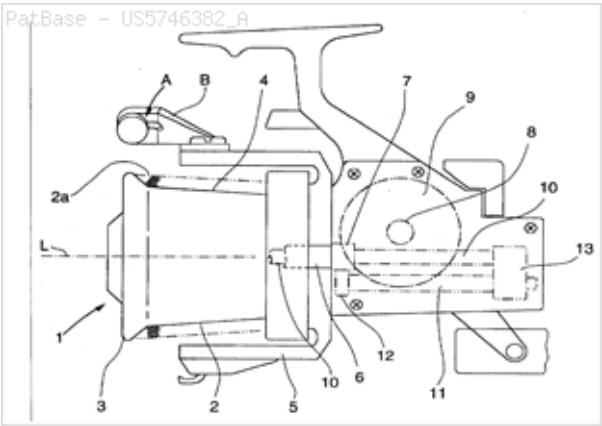
A61F13/15 (Core/Invention)

International (IPC 1-7): A01K89/01 A61F13/15

CPC: A01K89/0111

European: A01K89/01H

US: 242/322 242/613.1



Family:

Publication number	Publication date	Application number	Application date
CO4750789 A1	19990331	CO19960041106	19960802
JP3007531 U	19950221	JP19940010736U	19940805
US5746382 A	19980505	US19970821411	19970321

Priority:

JP19940010736U 19940805 US19950510618 19950803 US19970821411 19970321

Probable Assignee: DAIWA SEIKO INC

Assignee(s): (std): DAIWA SEIKO INC ; PROCTER AND GAMBLE

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

Inventor(s): (std): ROE DONALD CARROL ; TSUTSUMI WATARU

Inventor(s): CARROL ROE DONALD

Agent(s): ALVARO CORREA ORDONEZ

Title: Absorbent comprising upper and lower gel layers

Abstract: Source: US5830202A PCT No. PCT/US95/08709 Sec. 371 Date Jan. 29, 1997 Sec. 102(e) Date Jan. 29, 1997 PCT Filed Jul. 13, 1995 PCT Pub. No. WO96/03947 PCT Pub. Date Feb. 15, 1996The invention relates to an absorbent structure (1) having a first layer which forms a mixture of absorbent gelling material particles (5), fibers, a second layer comprising liquid permeable substrate (7), and absorbent gelling material particles (9) attached to said substrate thus forming a laminate. The weight of the absorbent gelling material particles (5) in the mixed layer is not more than 70 percent, preferably not more than 60 percent of the weight of the mixed layer. The combined weight of the absorbent gelling material particles attached to the substrate (7), and in the mixed layer (5) is at least 80 percent, preferably at least 140 percent of the weight of fibers in the mixed layer (5). The laminate (7, 9) can be located on top of the mixed layer (5), and comprises an acquisition zone (15) of low basis weight of absorbent gelling material particles. The laminate may also be located below the mixed layer.

Classifications:

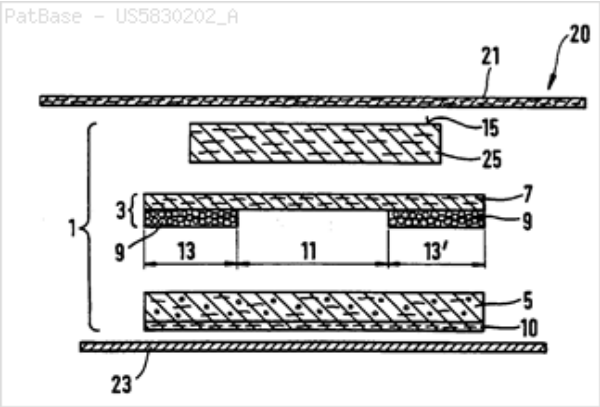
International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49 A61F13/53 A61F13/534 A61F5/44 (Advanced/Invention); A61F13/53 (Advanced/Non-invention); A61F13/15 A61F5/44 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F13/46 A61F13/50

CPC: A61F13/5323 A61F13/534 A61F13/535

European: A61F13/532B A61F13/534 A61F13/535

US: 604/368 604/378



Family:

Publication number	Publication date	Application number	Application date
AU199530071 A1	19960304	AU19950030071	19950713
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JP4527063 B2	20100818	JP20060003786	20060111
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MX9700830 A1	19970930	MX19970000830	19950713
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US5830202 A	19981103	US19970776372	19970129
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ZA9506381 A	19970430	ZA19950006381	19950731

Priority:

EP19940111955 19940801 WO1995US08709 19950713 JP19960506514 19950713
US19970776372 19970129 JP19960506514T 19950713

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BOGDANSKI MICHAEL SCOTT ; FEIST BARRY ROBERT ; LITCHHOLT JOHN JOSEPH ; PROCTER AND GAMBLE ; SANCHEZ LIZA MARIE ; SCHMIDT MATTIAS

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

Inventor(s): (std): BOGDANSKI MICHAEL HOWARD ; BOGDANSKI MICHAEL S ; BOGDANSKI MICHAEL SCOTT ; BOGDANSKI MICHEAL SCOTT ; FEIST BARRY R ; FEIST BARRY ROBERT ; FEIST BARY ROBERT ; LITCHHOLT JOHN J ; LITCHHOLT JOHN JOSEPH ; LITCHHOLTZ JON JOSEPH ; SANCHEZ LIZA MARIE ; SANCHEZ MARIE SANCHEZ ; SCHMIDT MATTIAS

Inventor(s): MICHAEL HOWARD BOGDANSKI ; MARIE SANCHEZ SANCHEZ ; BARRY R FEIST ; BARRY ROBERT FEIST ; BARY ROBERT FEIST ; LIZA MARIE SANCHEZ ; MATTIAS SCHMIDT ; MICHAEL S BOGDANSKI ; MICHAEL SCOTT BOGDANSKI ; MICHEAL SCOTT BOGDANSKI ; JOHN J LITCHHOLT ; JOHN JOSEPH LITCHHOLT ; JON JOSEPH LITCHHOLTZ

Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA; NAGAI HIROSHI

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

Title: Method and apparatus for making stretchable **absorbent articles**

Abstract: Source: US5560878A A method and apparatus for making stretchable absorbent diaper articles. An absorbent material is provided and entangled with a stretchable material to form a stretchable network incorporating the absorbent material. In one embodiment a plurality of foam absorbent material particulates are drawn or accelerated by gravity, vacuum or forced air through a stream of a meltblown adhesive that contacts and entangles the particulates and forms a stretchable network incorporating the particulates.

Classifications:

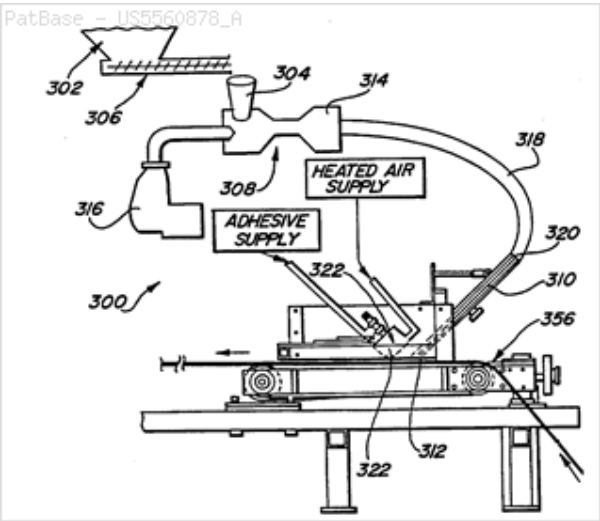
International (IPC 8-9): A61F13/00 A61F13/15 A61F13/472 A61F13/49 A61F13/53 A61F5/44 B32B5/30 (Advanced/Invention); A61F13/00 A61F5/44 (Advanced/Non-invention); A61F13/00 A61F13/15 A61F5/44 B32B5/22 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/46 A61F13/53 A61F5/44 B29C70/06

CPC: A61F13/534 A61F13/15658

European: A61F13/15M3G A61F13/534

US: 264/115 264/122 264/518 425/72.2 425/82.1 425/83.1



Family:

Publication number	Publication date	Application number	Application date
AT194070 E	20000715	AT19950941470T	19951122
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CN1173121 A	19980211	CN19951097334	19951122
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EP0788336 A1	19970813	EP19950941470	19951122
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KR100226401 B1	19991015	KR19977003642	19970530
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Priority:

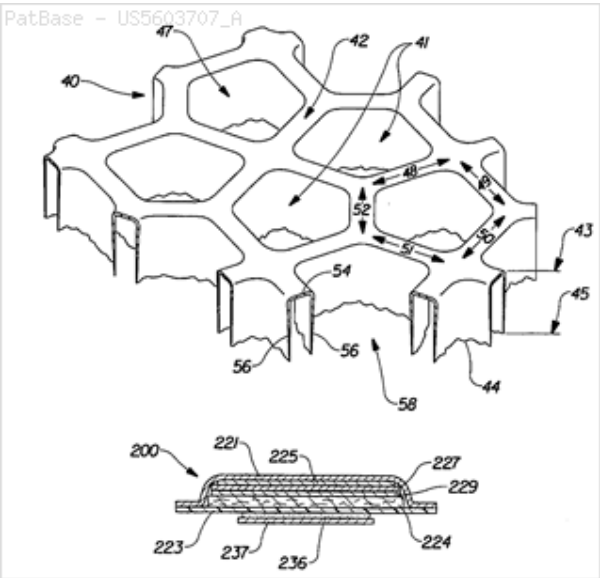
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Probable Assignee: PROCTER AND GAMBLE**Assignee(s):** (std): PROCTER AND GAMBLE**Assignee(s):** PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; ZORB JAMES EDWARD ; DRAGOO JERRY LAYNE ; NEASE MICHAEL GARY**Inventor(s):** (std): DRAGOO JERRY L ; DRAGOO JERRY LAYNE ; DRAGOO LAYNE ; EDWARD ZORB JAMES ; GARY NEASE MICHAEL ; NEASE GARY ; NEASE MICHAEL G ; NEASE MICHAEL GARY ; NEAXE MICHAEL GARY ; ZORB EDWARD ; ZORB JAMES E ; ZORB JAMES EDWARD ; LAYNE DRAGOO JERRY ; MICHAEL**Inventor(s):** JERRY L DRAGOO ; JAMES E ZORB ; MICHAEL GARY NEASE ; Dragoo ; MICHAEL G NEASE ; Zorb ; James Edward ; JAMES EDWARD ZORB ; Jerry Layne ; JERRY LAYNE DRAGOO**Agent(s):** SIM AND MCBURNEY**Designated states:** AL AM AT AU 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 MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

Title: Absorbent article having a rewet barrier

Abstract:
Source: US5603707A The present invention provides an absorbent article having a rewet barrier. The absorbent article includes a liquid pervious topsheet, a liquid impervious backsheet joined to the topsheet, an absorbent core positioned between the topsheet and the backsheet, a fibrous acquisition layer positioned between the topsheet and the absorbent core, and a rewet barrier positioned between the fibrous acquisition layer and the absorbent core. The rewet barrier is an apertured, macroscopically expanded, three-dimensional polymeric web having a body facing surface and a garment facing surface.

Classifications:
International (IPC 8-9): A61F13/15
A61F13/511 A61F5/44 (Advanced/Invention);
A61F13/15 A61F5/44 (Advanced/Non-invention);
A61F13/15 A61F5/44 (Core/Invention)
International (IPC 1-7): A61F13/15 A61F13/20 A61F5/44
CPC: A61F13/53743
European: A61F13/537C
US: 604/370 604/378 604/383



Family:

Publication number	Publication date	Application number	Application date
AR004774 AA	19990310	AR1996P105355	19961127
AU199710512 A1	19970619	AU19970010512	19961114
BRPI9611782 A	19990223	BR1996PI11782	19961114
CA2237555 AA	19980513	CA19962237555	19961114
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EP0863736 A1	19980916	EP19960941340	19961114
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MX9804223 A1	19980930	MX19980004223	19980527
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TH25223 A	19970523	TH19961004073	19961126
US5603707 A	19970218	US19950563711	19951128
WO9719661 A1	19970605	WO1996US18076	19961114
ZA9609225 A	19970611	ZA19960009225	19961101

Priority:
US19950563711 19951128 WO1996US18076 19961114

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

PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTER AND GAMBLE
CO ; TROMBETTA LIBERATORE ANTONIO ; DARBY DENNIS ALLEN ; HUHTANEN
JAYNE SUSAN ; PATEL DHANRAJ SHANTILAL

Inventor(s): (std): DARBY ALLEN ; DARBY DENNIS A ; DARBY DENNIS ALLEN ; HUHTANEN JAYNE
S ; HUHTANEN JAYNE SUSAN ; HUHTANEN SUSAN ; PATEL DHANRAJ S ; PATEL
DHANRAJ SHANTILAL ; PATEL SHANTILAL ; SHANTILAL DHANRAJ ; TROMBETTA
ANTONIO ; TROMBETTA LIBERATORE A ; TROMBETTA LIBERATORE ANTONIO

Inventor(s): ALLEN DARBY DENNIS ; ANTONIO TROMBETTA LIBERATORE ; SUSAN
HUHTANEN JAYNE ; JAYNE SUSAN HUHTANEN ; LIBERATORE A TROMBETTA ;
LIBERATORE ANTONIO TROMBETTA ; DENNIS A DARBY ; DENNIS ALLEN DARBY
; DHANRAJ S PATEL ; DHANRAJ SHANTILAL ; DHANRAJ SHANTILAL PATEL

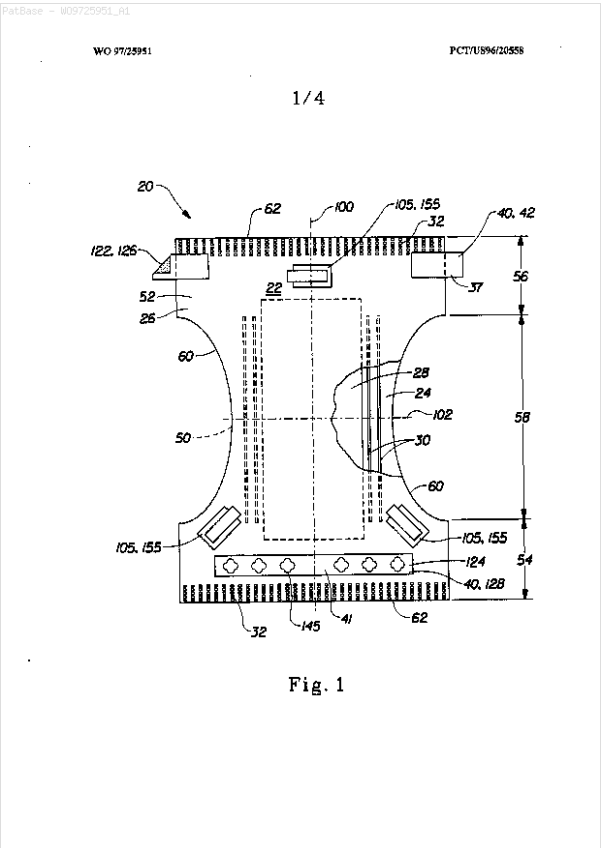
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; SIM AND MCBURNEY;
CARLOS REINALDO OLARTE GARCIA

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CN CU CZ DE DK EE
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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

Title: **ABSORBENT ARTICLE** HAVING AN ADJUSTMENT SYSTEM

Abstract:
The present invention provides an **absorbent article** having an adjustment system optimally placed on the backsheet and/or the topsheet to provide the **absorbent article** with an adjustable fit. Once the **absorbent article** is fitted about a wearer, the adjustment system may be adjusted to securely fit the **absorbent article** about a wearer's waist and legs, thus reducing the opportunities for leakage of bodily fluids.

Classifications:
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/496 A61F13/56 A61F5/44 (Advanced/Invention); A61F13/15 A61F13/47 A61F13/56 A61F5/44 (Advanced/Non-invention); A61F13/15 A61F13/56 A61F5/44 (Core/Invention)
International (IPC 1-7): A61F13/15 A61F13/56 A61F5/44
CPC: A61F13/5638 A61F13/5655 A61F13/493
European: A61F13/493 A61F13/56C



Family:

Publication number	Publication date	Application number	Application date
AU199713474 A1	19970811	AU19970013474	19961218
CA2243464 AA	19980717	CA19962243464	19961218
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ES2174131 T3	20021101	ES19960945007T	19961218
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Priority:
US19960588487 19960118 WO1996US20558 19961218 WO1996US20558 19961218

Probable Assignee: PROCTER AND GAMBLE

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

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

Inventor(s): (std): RONN KARL PATRICK ; RONN PATRICK

Inventor(s): KARL PATRICK RONN

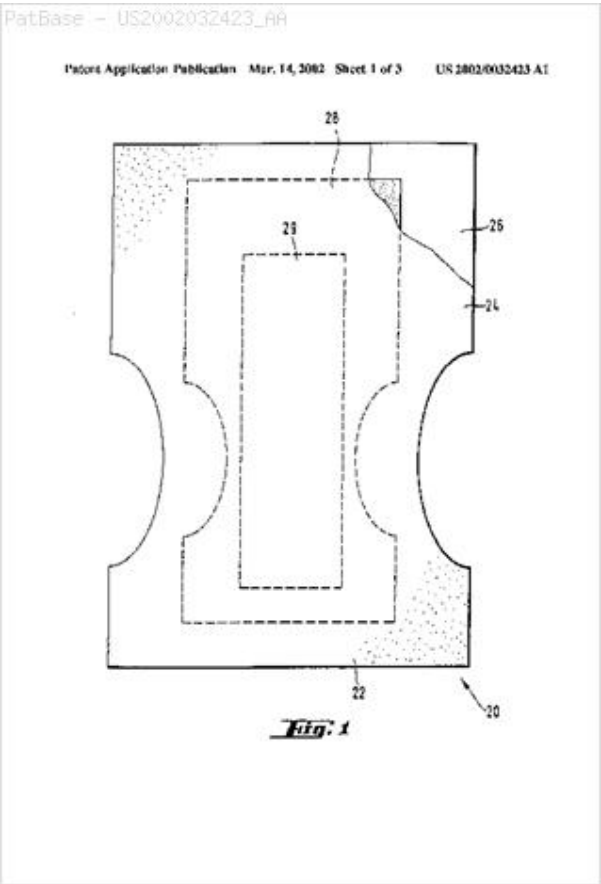
Agent(s): SIM AND MCBURNEY

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI 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

Title: DISPOSABLE **ABSORBENT ARTICLES** WITH CONTROLLED SKIN HYDRATION EFFECT

Abstract:
Source: US2002032423A This invention is a disposable **absorbent article** (20) covering certain parts of the body of the wearer and comprising a loading area, a storage area, as well as a chassis area, whereby the **absorbent article** has a specific skin hydration value, calculated from the individual skin hydration values of the respective areas.

Classifications:
International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/49 A61F13/53 A61F5/44 A61L15/60 (Advanced/Invention); A61F13/15 A61F13/20 A61F5/44 (Advanced/Non-invention); A61F13/00 A61F13/15 (Core/Non-invention)
International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F5/44 A61L15/32 A61L15/60
CPC: A61F13/535 A61F13/84 A61F2013/8491
European: A61F13/535 A61F13/84 K61F13/15D10E K61F13/15D2D K61F13/15D3 K61F13/15D6C K61F13/15D7F K61F13/84E1
US: 604/358 604/367 604/368 604/368S 604/378 604/378P



Family:

Publication number	Publication date	Application number	Application date
AR006409 AA	19990825	AR1997P101222	19970326
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KR20000005131 A	20000125	KR19980707777	19980929
NO984520 A	19981130	NO19980004520	19980928
NO984520 A0	19980928	NO19980004520	19980928
TH48689 A	20011217	TH19971001191	19970328
TR9801944 T2	20000921	TR19980001944T	19970325
TW372191 B	19991021	TW19970120003	19971230
US2002032423 AA	20020314	US19980155469	19980929
US2002087135 AA	20020704	US20020052118	20020117
US6388166 BA	20020514	US19980155469	19980929
WO9736562 A1	19971009	WO1997US04807	19970325
ZA9702636 A	19971021	ZA19970002636	19970326

Priority:

EP19960105023 19960329 WO1997US04807 19970325 US19980155469 19980929
US20020052118 20020117

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): DOMINGUEZ STAEDKE JOSE ; DOMINGUEZ STAEDKE JOSE NICOLAS ;
HERRLEIN MATHAIS KURT ; HERRLEIN MATHIAS KURT ; LANKHOF JOHN PETER
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PROCTER AND GAMBLE CO THE ; ROBERTSON MUIR CHARLES ; SCHUMANN
KARL MICHAEL ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE
COMPANY

Assignee(s): THE PROCTER AND GAMBLE COMPANYUS ; THE PROCTER AND GAMBLE CO
CINCINNATI OHIO ; THE PROCTER AND GAMBLE CO CINCINNATI ; PROCTER
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Inventor(s): (std): DOMINGUEA ST JOSE NICOLAS ; DOMINGUEA STAEDKE JOSE NICOLAS ;
DOMINGUES STAEDKE JOSE NICOLAS ; DOMINGUEZ STAEDKE JOSE ;
DOMINGUEZ STAEDKE JOSE NICOLAS ; HERRLEIN MATHAIS KURT ; HERRLEIN
MATHIAS ; HERRLEIN MATHIAS KURT ; IVAN JEAN OLIVIER ; IVAN JEAN
OLLIVIER ; JOHN P LANKHOF ; JOHN PETER LANKHOF ; JOSE NICOLAS
DOMINGUEA STAEDKE ; JOSE NICOLAS DOMINGUEZ STAEDKE ; KARL MICHAEL
SCHUMANN ; MATHAIS KURT HERRLEIN ; MATHIAS K HERRLEIN ; MATHIAS
KURT HERRLEIN ; MUIR C ROBERTSON ; MUIR CHARLES ROBERTSON ; OLIVIER
IVAN JEAN ; OLLIVER IVAN JEAN ; OLLIVIER IVAN JEAN ; OLLIVIER IVAN JEAN
FRANKFURT ; LAKHOF JOHN PETER ; LANKHOF JOHN PETER ; LANKHOF JOHN
PETER KELKHEIM ; ROBERTSON MUIR CHARLES ; SCHUMANN KARL MICHAEL ;
SCHUMANN KARL MICHAEL BAD SODE ; ROBERTSON MUIR C ; LANKHOF JOHN
P ; HERRLEIN MATHIAS K ; ROBERSON MUIR CHARLES ; ROBERSON MUIR
CHARLES KOENIGST

Inventor(s): ROBERSON MUIR CHARLES KOENIGSTEIN 61462 ; DOMINGUEZ STAEDKE JOSE
N ; SCHUMANN KARL MICHAEL BAD SODEN 65812 ; LANKHOF JOHN PETER
KELKHEIM 65779 ; OLLIVIER IVAN JEAN FRANKFURT 60322 ; KURT HERRLEIN
MATHAIS ; JOSE NICOLAS DOMINGUEA ST ; JOHN PETER LAKHOF ; JEAN
OLLIVIER IVAN

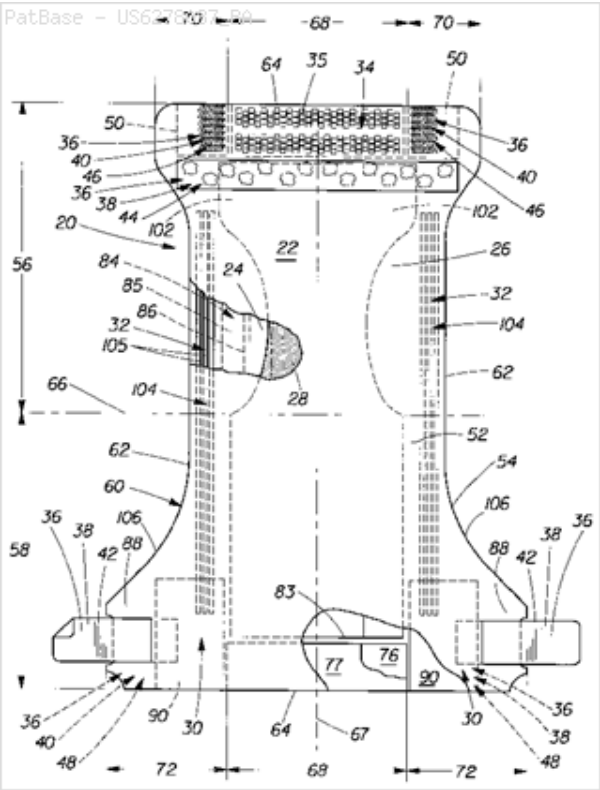
Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA; REINHOLD COHN
AND PARTNERS

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE
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SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

Title: Absorbent article having improved comfort during use by improved fit even when loaded and improved rewet performance

Abstract:
Source: US6278037B Absorbent article comprising an absorbent core with a crotch region and at least one waist region, whereby said crotch region has a lower ultimate fluid storage capability than said at least one waist region. The article further has an improved fluid handling performance in particular a low rewet value for minimizing skin hydration during use, such as measured by the post acquisition collagen rewet method value not exceeding 180 mg.

Classifications:
International (IPC 8-9): A47G7/00 A61F13/00 A61F13/15 A61F13/40 A61F13/49 A61F13/53 A61F5/44 (Advanced/Invention); A61F5/44 (Advanced/Non-invention); A47G7/00 A61F13/15 A61F5/44 (Core/Invention); A61F13/00 A61F13/40 (Core/Non-invention); A61F B32B (Subclass/Invention)
International (IPC 1-7): A47G7/00 A61F13/00 A61F13/15 A61F13/40 A61F13/49 A61F13/53 A61F5/44
CPC: A61F13/15203 A61F2013/15284 A61F2013/530437 A61F2013/530481 A61F2013/530817
European: A61F13/15J K61F13/15J8 K61F13/53P K61F13/53Q K61F13/53R1A
US: 604/367 604/369 604/378



Family:

Publication number	Publication date	Application number	Application date
AT227553 E	20021115	AT19970917664T	19970327
AU199725927 A1	19981022	AU19970025927	19970327
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ES2185927 T5	20070401	ES19970917664T	19970327
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TR9902644 T2	20000522	TR19990002644T	19970327
TW365531 B	19990801	TW19980105325	19980409
US6278037 BA	20010821	US19990381927	19991105
WO9843579 A1	19981008	WO1997US05048	19970327
ZA9802256 A	19980916	ZA19980002256	19980317

Priority:

CZ19990003408	19970327	EP19970917664	19970327	HU20000002363	19970327
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US19990381927	19991105	US19970005048	19970327		

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): HELLER ZSUZSA G ; LAVON GARY DEAN ; NEUMANN FRANK ; PALUMBO GIANFRANCO ; PROCTER AND GAMBLE ; EHRNSPERGER BRUNO JOHANNES ; YOUNG GERALD ALFRED ; SCHMIDT MATTIAS ; PROCTER AND GAMBLE CO CINCINNA ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE COMPANYUS ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; THE PROCTER AND GAMBLE CO CINCINNATI ; PROCTER AND GAMBLE GMBH ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PROCTER AND GAMBLE COMPANY THE ; PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO ; G HELLER ZSUZSA

Inventor(s): (std): BRUNO JOHANNES EHRNSPERGER ; DEAN LAVON GARY ; EHRNSPERGER BRUNO JOHANNES ; EHRNSPERGER JOHANNES ; FRANK NEUMANN ; G HELLER ZSUZSA ; GAINFRANCO PALUMBO ; GARY DEAN LAVON ; GERALD ALFRED YOUNG ; GIANFRANCO PALUMBO ; LAVON DEAN ; LAVON GARY D ; LAVON GARY DEAN ; MATTIAS SCHMIDT ; NEUMANN FRANK ; PALUMBO GIANFRANCO ; SCHMIDT MATTIAS ; YOUNG ALFRED ; YOUNG GARY A ; YOUNG GERALD A ; YOUNG GERALD ALFRED

Inventor(s): PALUMBO GAINFRANCO

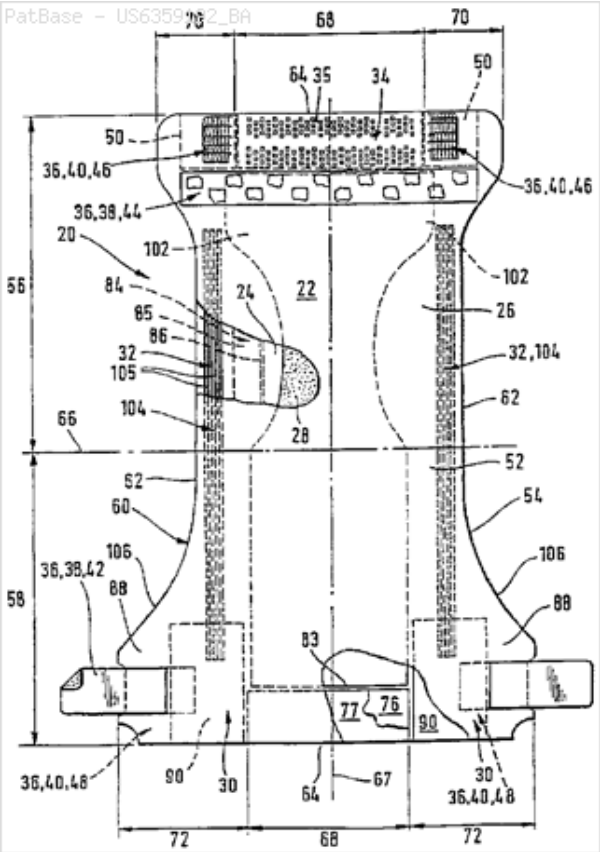
Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA; REINHOLD COHN AND PARTNERS

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU 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 SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

Title: Absorbent article with improved fluid distribution materials

Abstract:
Source: US6359192B Disclosed is an absorbent article comprising an absorbent core with a crotch region and at least one waist region, whereby said crotch region has a lower ultimate fluid storage capability than said at least one waist region. The crotch region further comprises a high flux liquid distribution material having a flux at 12.4 cm of more than 0.075 g/cm2/sec.

Classifications:
International (IPC 8-9): A61F13/15 A61F13/45 A61F13/49 A61F13/53 A61F5/44 (Advanced/Invention); A61F13/15 A61F5/44 (Advanced/Non-invention); A61F13/15 A61F5/44 (Core/Invention); A61F13/15 (Core/Non-invention); A61F (Subclass/Invention)
International (IPC 1-7): A61F13/15 A61F13/49 A61F13/53 A61F2/00 A61F5/44
CPC: A61F13/15203 A61F13/532 A61F13/5376
European: A61F13/15J A61F13/532 A61F13/537D
US: 604/369 604/375 604/378 604/385.01



Family:

Publication number	Publication date	Application number	Application date
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US6359192 BA	20020319	US19990381926	19990927
WO9843580 A1	19981008	WO1997US05234	19970327
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Priority:

WO1997US05234 19970327 US19970005234 19970327

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): EHRNSPERGER BRUNO JOHANNES ; LAVON GARY DEAN ; NEUMANN FRANK ; PROCTER AND GAMBLE ; SCHMIDT MATTIAS ; PALUMBO GIANFRANCO ; YOUNG GERALD ALFRED

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

Inventor(s): (std): YOUNG GERALD ALFRED ; YOUNG GERALD A ; YOUNG ALFRED ; PALUMBO GIANFRANCO ; NEUMANN FRANK ; LAVON GARY DEAN ; LAVON GARY D ; LAVON DEAN ; EHRNSPERGER JOHANNES ; EHRNSPERGER BRUNO JOHANNES ; YOUNG GERALD ; SCHMIDT MATTIAS ; LAVON GARY ; EHRNSPERGER BRUNO ; DEAN LAVON GARY

Inventor(s): YOUNG GERALDALFRED ; BRUNO JOHANNES EHRNSPERGER ; EHRNSPERGER BRUNOJOHANNES ; GIANFRANCO PALUMBO ; GERALD ALFRED YOUNG ; GARY DEAN LAVON ; FRANK NEUMANN ; MATTIAS SCHMIDT ; LAVON GARYDEAN ; LAVON GARY DENA

Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU 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 SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

Title: Absorbent articles having lotioned leg cuffs containing a polysiloxane emollient

Abstract:

An absorbent article, such as a diaper, containing leg cuffs coated with a lotion composition is disclosed. The lotions disclosed in the present invention minimize the abrasion between the cuffs and skin in the area where the cuffs contact the wearer's skin, resulting in less skin irritation. The lotion compositions also reduce the adherence of BM to the skin of the wearer, thereby improving the ease of BM clean up. The lotion composition comprises a plastic or fluid polysiloxane emollient such as phenyl-functional polymethylsiloxanes, an immobilizing agent such as a fatty alcohol or paraffin wax to immobilize the emollient on the surface of the diaper leg cuffs, and optionally a hydrophilic surfactant to improve the processability and/or stability of the lotion compositions. Because the polysiloxane emollient is substantially immobilized on the surface of the leg cuff, less lotion is required to impart the desired therapeutic or protective lotion coating benefits.

Classifications:

International (IPC 8-9): A61F13/15

A61F13/494 A61F13/76 A61F5/44 A61L15/22

A61L15/26 A61L15/34 A61L15/46

C08L83/04 (Advanced/Invention);

A61F13/15 A61F5/44 A61L15/26 (Advanced/Non-invention);

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A61F13/15 A61F13/76 (Core/Non-invention)

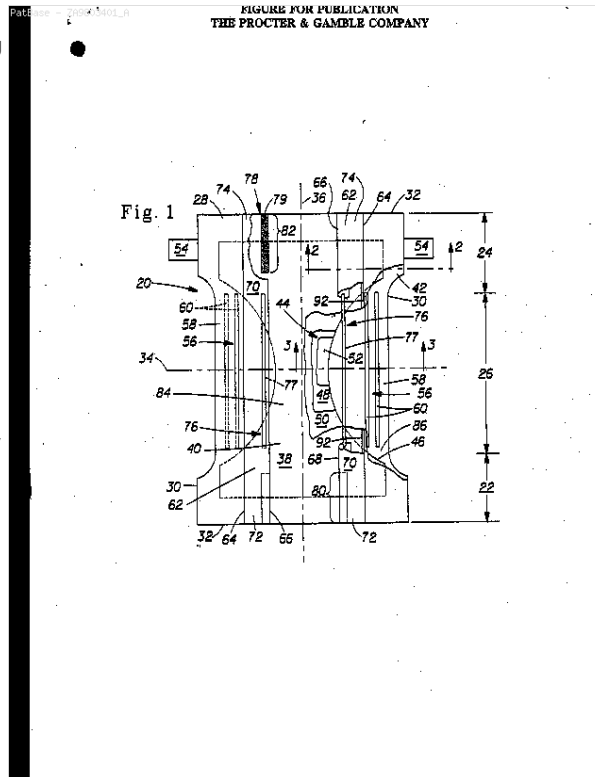
International (IPC 1-7): A61F13/15

A61F13/494 A61F13/76 A61F5/44 A61L15/22 A61L15/26 A61L15/34 A61L15/46 A61L15/50

C08L83/04

CPC: A61L15/225 A61L15/26 A61L15/46 A61L2300/30 A61L2300/802

European: A61L15/22M A61L15/26 A61L15/46 K61L300/300 K61L300/802



Family:

Publication number	Publication date	Application number	Application date
AR015594 AA	20010516	AR1998P101887	19980423
AU199867439 A1	19981113	AU19980067439	19980423
BRPI9810929 A	20000926	BR1998PI10929	19980423
CA2285620 AA	19991014	CA19982285620	19980423
CN1257433 A	20000621	CN19988005464	19980423
CO5040080 A1	20010529	CO19980022675	19980424
EP0977603 A1	20000209	EP19980912678	19980423
HU0001235 AB	20000828	HU20000001235	19980423
ID24052 A	20000706	ID19990001273	19980423
IL132321 A0	20010319	IL19980132321	19980423
JP2000510371 T2	20000815	JP19980545357T	19980423
KR20010012103 A	20010215	KR19997009805	19991022
NO995166 A	19991227	NO19990005166	19991022
NO995166 A0	19991022	NO19990005166	19991022
PE83599 A1	19991015	PE19980000306	19980424
TH33672 A	19990702	TH19981001428	19980422

TR9902610 T2	20000221	TR19990002610T	19980423
TW366281 B	19990811	TW19980116224	19980930
WO9847546 A1	19981029	WO1998IB00618	19980423
ZA9803401 A	19981027	ZA19980003401	19980422

Priority:

US19970840039 19970424 WO1998IS00618 19980423 WO1998IB00618 19980423

Probable Assignee: PROCTER AND GAMBLE

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

Assignee(s): THE PROCTER AND GAMBLE COMPANYUS ; VANRIJSWIJCK LAURA GRAVES SPALDING ; PROCTER AND GAMBLE CO ; ROE DONALD CARROLL ; SCHULTE THOMAS EDWARD ; HERSKO BART STEVEN

Inventor(s): (std): DONALD CARROLL ROE ; GRAVES SPALDING VANRIJSWIJCK LAURA ; HERSKO BARD STEVEN ; HERSKO BART STEVEN ; LAURA G S VANRIJSWIJCK ; LAURA GRAVES SPALDING VANRIJSWIJCK ; ROE DONALD CAROLL ; ROE DONALD CARROL ; ROE DONALD CARROLL ; SCHULTE THOMAS ; SCHULTE THOMAS EDWARD ; THOMAS E SCHULTE ; THOMAS EDWARD SCHULTE ; BART STEVEN HERSKO ; DANALD C ROE ; VANRIJSWIJCK LAURA GRAVES SPAL ; VANRIJSWIJCK LAURA GRAVES SPALDING ; VANRIJSWIJCK LAURA G S ; SCHULTE THOMAS E ; ROE DANALD C

Inventor(s): BARD STEVEN HERSKO ; VANRIJSWIJCK LAURA GRAVES S ; DONALD CARROL ROE ; THOMAS SCHULTE

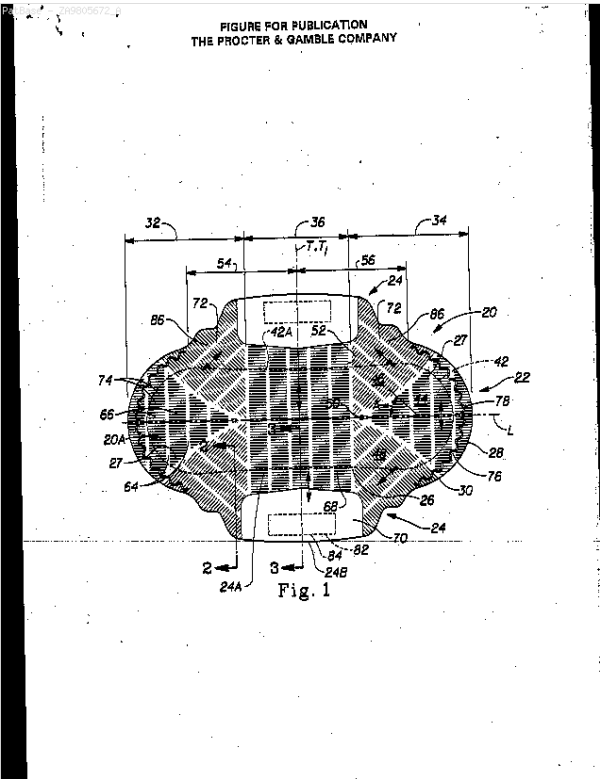
Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA

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 UZ VN YU ZW

Title: Multi-directionally extensible sanitary napkin.

Abstract:
Multi-directionally extensible **absorbent articles** for wearing in an undergarment, such as sanitary napkins, panty liners, incontinence pads, and the like, are disclosed. Multi-directionally extensible **absorbent cores**, and omni-directionally extensible **absorbent cores** for such **absorbent articles** are also disclosed. The **absorbent articles** with the omni-directionally extensible **absorbent core** are provided with an overall diagonal extensibility to accommodate the forces exerted on the **absorbent article** by the wearer's undergarments when the wearer walks, and otherwise moves about. The **absorbent articles** may also be provided with regions of extensibility that are oriented in certain directions to reduce the forces acting on the **absorbent article** when worn.

Classifications:
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 A61F13/534 (Advanced/Invention); A61F13/15 (Advanced/Non-invention)
International (IPC 1-7): A61F13/15 A61F13/49 A61F13/53 A61F13/534
CPC: A61F13/15203 A61F13/47209 A61F13/47218 A61F13/47263 A61F13/476 A61F13/49009 A61F13/4902 A61F13/511 A61F13/51466 A61F13/53 A61F2013/530664
European: A61F13/15C3 A61F13/15J A61F13/472B A61F13/472D A61F13/476 A61F13/49D2 A61F13/49D2H A61F13/511 A61F13/514B2A A61F13/53 K61F13/472A K61F13/53Q4F



Family:

Publication number	Publication date	Application number	Application date
AT227554 E	20021115	AT19980931741T	19980630
AU199881782 A1	19990119	AU19980081782	19980630
BRPI9810224 A	20000808	BR1998PI10224	19980630
CA2294273 AA	19991222	CA19982294273	19980630
CA2294273 C	20040413	CA19982294273	19980630
CN1267209 A	20000920	CN19988008233	19980630
DE69809425 D1	20021219	DE19986009425	19980630
DE69809425 T2	20030508	DE19986009425T	19980630
EP0994686 A1	20000426	EP19980931741	19980630
EP0994686 B1	20021113	EP19980931741	19980630
ID25911 A	20001109	ID19990001718	19980630
JP2002515817 T2	20020528	JP19990509841T	19980630
KR20010014401 A	20010226	KR19997012580	19991230
TH34319 A	19990806	TH19981002446	19980629
WO9900095 A1	19990107	WO1998US13613	19980630
ZA9805672 A	19991125	ZA19980005672	19980629

Priority:
US19970886055 19970630 WO1998US13613 19980630

Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): 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 ; WILKINS LESLIE ANNE ; WEINBERGER ERIC PATTON ; AHR NICHOLAS ALBERT ; ARROYO ENID VANESSA ; HERSHBERGER MICHAEL NYLE ; HINES LETHA MARGIE ; OSBORN THOMAS WARD III ; PATTERSON REBECCA WHITE

Inventor(s): (std): AHR ALBERT ; AHR NICHOLAS ALBER ; AHR NICHOLAS ALBERT ; AHR NICOLHAS ALBERT ; ARROYO ENID VANESSA ; ARROYO VANESSA ; HERSHBERGER MICHAEL NYLE ; HERSHBERGER NYLE ; HINES LETHA MARGIE ; HINES MARGIE ; OSBORN III THOMAS WARD ; OSBORN THOMAS WARD ; OSBORN THOMAS WARD III ; OSBORN WARD ; PATTERSON REBACCA WHITE ; PATTERSON REBECCA WHITE ; PATTERSON WHITE ; WEINBERGER ERIC PATON ; WEINBERGER ERIC PATTON ; WEINBERGER PATTON ; WILKINS ANNE ; WILKINS LESLIE ANN ; WILKINS LESLIE ANNE ; PATTERSON REBECCA W ; OSBORN THOMAS W III ; HERSHBERGER MICHAEL N

Inventor(s): LESLIE ANN WILKINS ; III THOMAS WARD OSBORN ; REBACCA WHITE PATTERSON ; REBECCA W PATTERSON ; REBECCA WHITE PATTERSON ; THOMAS W OSBORN III ; THOMAS WARD OSBORN ; THOMAS WARD OSBORN III ; LESLIE ANNE WILKINS ; LETHA MARGIE HINES ; MICHAEL N HERSHBERGER ; MICHAEL NYLE HERSHBERGER ; NICHOLAS ALBER AHR ; NICHOLAS ALBERT AHR ; NICOLHAS ALBERT AHR ; ENID VANESSA ARROYO ; ERIC PATON WEINBERGER ; ERIC PATTON WEINBERGER

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; SIM AND MCBURNEY

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 UZ VN YU ZW

Title: Web materials with **two** or more skin care compositions disposed thereon and articles made therefrom

Abstract:

Source: US6120783A Web materials which have **two** or more skin care compositions disposed thereon. The skin care compositions are transferable to the wearer's skin by normal contact and/or wearer motion and/or body heat. The skin care compositions disclosed in the present invention are selected to maintain and/or improve the skin health of the wearer upon transfer during use, for example, to provide a skin protective barrier or a therapeutic benefit; to minimize the abrasion between the cuffs and skin in the area where the cuffs contact the wearer's skin, resulting in less skin irritation; to improve BM clean up on the skin, or to improve the barrier properties of the cuffs. Web materials of the present invention have a wide range of potential uses in both durable and disposable articles, but are particularly well suited for use in disposable **absorbent articles** such as disposable diapers, incontinent briefs, training pants, sanitary napkins, and the like.

Classifications:

International (IPC 8-9): A61F13/15

A61F13/472 A61F13/49 A61F13/511 A61F5/44

A61L15/16 D06M13/00 (Advanced/Invention);

A61F13/15 A61F5/44 D06M13/00 (Advanced/Non-invention);

A61F13/15 A61F5/44

D06M13/00 (Core/Invention)

International (IPC 1-7): A61F13/15

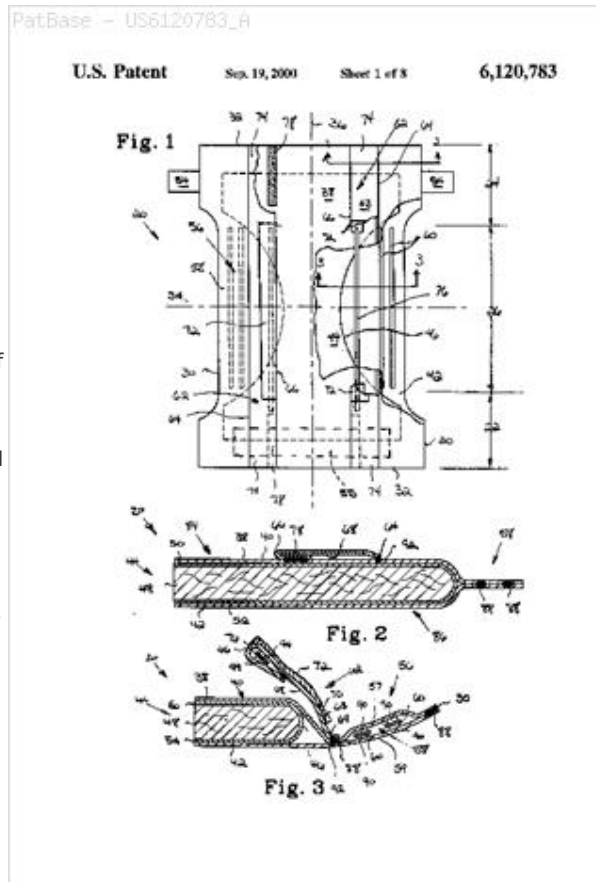
A61F13/472 A61F13/49 A61F13/511 A61F5/44

A61K9/70 A61L15/16 D06M13/00

CPC: A61F13/8405

European: A61F13/84B

US: 424/402 424/404 424/443 604/364



Family:

Publication number	Publication date	Application number	Application date
AR017178 AA	20010822	AR1998P105467	19981030
AT247445 E	20030915	AT19980952373T	19981019
AU199898091 A1	19990524	AU19980098091	19981019
BRPI9814836 A	20001003	BR1998PI14836	19981019
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CN1315446 C	20070516	CN19988012659	19981019
CO5070626 A1	20010828	CO19980064545	19981103
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EG22469 A	20030226	EG19980001339	19981031
EP1027022 A1	20000816	EP19980952373	19981019
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KR20010031607 A	20010416	KR20007004658	20000428
PE126599 A1	20000213	PE19980001001	19981023
TH34274 A	19990806	TH19981004174	19981029
TW539554 B	20030701	TW19980118141	19990208
US6120783 A	20000919	US19970961879	19971031
US6290979 BA	20010918	US20000533005	20000322
WO9922684 A1	19990514	WO1998US22057	19981019
ZA9809697 A	19990429	ZA19980009697	19981023

Priority:

US19970961879 19971021 US19970961879 19971031 WO1998US22057 19981019
KR20007004658 20000428 US20000533005 20000322

Probable Assignee: PROCTER AND GAMBLE

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

Assignee(s): ROE DONALD CARROLL ; VANRIJSWIJCK LAURA GRAVES SPALDING ; SCHULTE THOMAS EDWARD ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; ELDER GRETCHEN LOUISE ; GAMBLE CO ; MILLER STEVEN WORTHINGTON ; PROCTER AND

Inventor(s): (std): DONALD CAROLL ROE ; DONALD CARROLL ROE ; ELDER GRETCHEN L ; ELDER GRETCHEN LOUISE ; ELDER LOUISE ; GRAVES SPALDING VANRIJSWIJCK LAURA ; GRETCHEN L ELDER ; GRETCHEN LOUISE ELDER ; HULTE THOMAS EDWARD ; LAURA GRAVES SPALDING VANRIJSWIJCK ; MILLER STEVEN ; MILLER STEVEN WORTHINGTON ; MILLER STEVEN WORTHINTON ; MILLER WORTHINGTON ; ROE CARROLL ; ROE DONALD C ; ROE DONALD CAROLL ; ROE DONALD CARROLL ; SCHULTE DONALD C ROE GRETCHEN ; SCHULTE EDWARD ; SCHULTE THOMAS E ; SCHULTE THOMAS EDWARD ; SPALDING VAN RIJSWIJCK LAURA G ; STEVEN WORTHINGTON MILLER ; STEVEN WORTHINTON MILLER ; THOMAS E SCHULTE ; THOMAS EDWARD SCHULTE ; VAN RIJSWIJCK LAURA GRAVES SPALDING ; VANRIJSWIJCK GRAVES ; VANRIJSWIJCK LAURA ; DONALD C ROE ; VANRIJSWIJCK LAURA GRAVES SPAL ; VANRIJSWIJCK LAURA GRAVES SPALDING

Inventor(s): DONALD C ROE GRETCHEN L ELDER THOMAS E SCHULTE ; VANRIJSWIJCK LAURA GRAVES ; THOMAS EDWARD HULTE ; SPALDING VAN RIJSWIJCK LAURA GRAVES

Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA

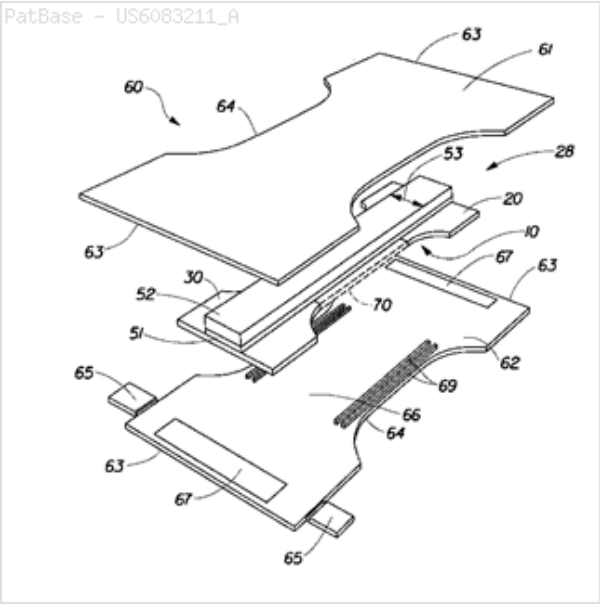
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Title: High suction polymeric foam materials

Abstract: Source: US6083211A Disclosed are polymeric foam structures suitable for absorbing and storing body fluids such as urine, menses and the like. These liquid storage structures are high suction collapsible polymeric foam materials. The collapsed foams, upon contact with aqueous fluids, can absorb and expand these fluids even when opposed by significant hydrostatic pressures. These absorbent polymeric foams comprise interconnected open-cells. In one aspect, the foams can absorb at least about 25 g/g against a hydrostatic head pressure of 50 cm. In another aspect, the foams of the present invention will have a vertical hang sorption height at 90 percent of at least about 60 cm.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 A61F5/44 A61L15/42 A61L15/60 B32B3/12 B32B3/26 C08F2/32 C08F36/00 C08J9/00 C08J9/02 (Advanced/Invention); A61F5/44 A61L15/42 (Advanced/Non-invention); A61F13/15 A61F5/44 A61L15/16 C08F2/32 C08J9/00 (Core/Invention)
International (IPC 1-7): A61F13/15 A61F13/49 A61F13/53 A61F5/44 A61L15/42 A61L15/60 B32B3/12 B32B3/26 C08F120/10 C08F2/32 C08F36/00 C08J9/00 C08L23/00
CPC: A61L15/425 C08F2/32
European: A61L15/42E C08F2/32
US: 604/358 604/367 604/369 604/385.1 604/385.21



Family:

Publication number	Publication date	Application number	Application date
AR015245 AA	20010418	AR1999P101055	19990311
AT255916 E	20031215	AT19990906375T	19990312
AU199926336 A1	19991011	AU19990026336	19990312
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CA2322524 C	20050705	CA19992322524	19990312
CN1299292 A	20010613	CN19998005873	19990312
CO5121076 A1	20020130	CO19990015464	19990312
CZ20003300 A3	20010411	CZ20000003300	19990312
DE69913505 D1	20040122	DE19996013505	19990312
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EG22177 A	20021031	EG19990000255	19990313
EP1064030 A1	20010103	EP19990906375	19990312
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ES2209401 T3	20040616	ES19990906375T	19990312
HU0101037 AB	20010730	HU20010001037	19990312
HU0101037 AC	20021028	HU20010001037	19990312
IL138148 A0	20011031	IL19990138148	19990312
JP2002506889 T2	20020305	JP20000536422T	19990312
JP2010090388 A2	20100422	JP20090280342	20091210

KR20010041849 A	20010525	KR20007010139	20000914
MX230660 B	20050915	MX2000PA08961	20000913
MXPA00008961 A1	20010501	MX2000PA08961	20000913
PE05282000 A1	20000803	PE19990000210	19990315
TH36323 A	19991217	TH19991000819	19990312
TR200002629 T2	20001121	TR20000002629T	19990312
US6083211 A	20000704	US19980042429	19980313
WO9947183 A1	19990923	WO1999IB00404	19990312
ZA9901990 A	19990913	ZA19990001990	19990311

Priority:

US19980042429 19980313 CZ20000003300 19990312 JP20000536422 19990312
WO1999IB00404 19990312

Probable Assignee: PROCTER AND GAMBLE CO

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

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

Inventor(s): (std): DESMARAI THOMAS ALLEN ; DESMARAI THOMAS A ; THOMAS ALLEN DESMARAI ; THOMAS A DESMARAI ; DESMARAI THOMAS ALLEN

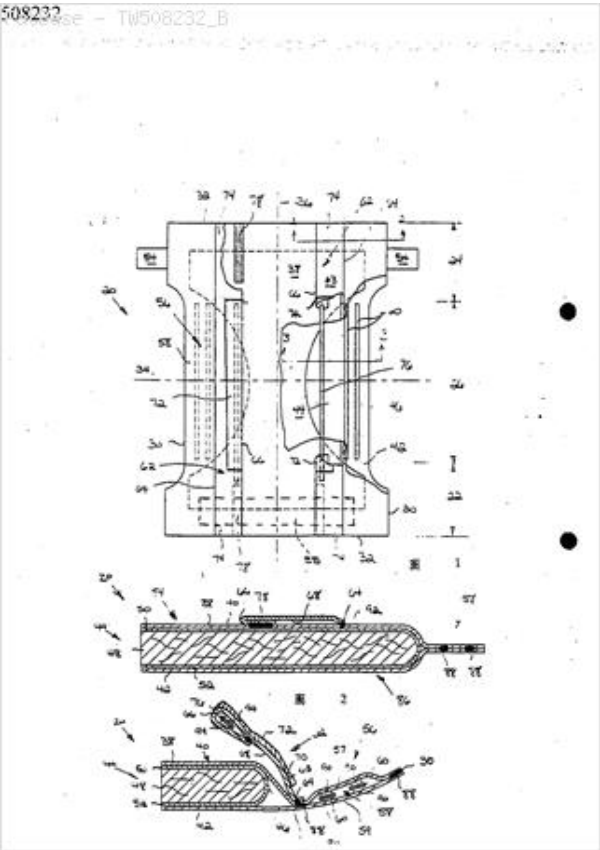
Agent(s): DIMOCK STRATTON LLP; CARLOS REINALDO OLARTE GARCIA

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 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 UZ VN YU ZW

Title: Absorbent articles having cuffs with skin care composition disposed thereon

Abstract:
Source: TW508232B An absorbent article, such as a diaper, containing cuffs with a skin care composition disposed thereon. The skin care composition disposed on the cuffs is transferable to the wearers skin by normal contact and/or wearer motion and/or body heat. The skin care compositions disclosed in the present invention are selected to maintain and/or improve the skin health of the wearer upon transfer during use, for example, to provide a skin protective barrier or a therapeutic benefit; to minimize the abrasion between the cuffs and skin in the area where the cuffs contact the wearers skin, resulting in less skin irritation; to improve bowel movement (hereinafter referred to as "BM") clean up on the skin, or to improve the barrier properties of the cuffs.

Classifications:
International (IPC 8-9): A01N25/34
A61F13/00 A61F13/15 A61F13/472 A61F13/49
A61F13/494 A61F5/44 A61K8/02 A61L15/16
A61L15/34 A61L15/40 A61L15/48 A61Q19/00
D06M13/02 (Advanced/Invention);
A61F13/15 A61F5/44 A61K8/02 A61L15/16
A61Q19/00 D06M13/00 (Core/Invention);
A61F (Subclass/Invention)
International (IPC 1-7): A61F13/15
A61F13/472 A61F13/49 A61F13/494 A61F5/44
A61L15/34 A61L15/48
CPC: A61F13/494 A61F13/49406 A61F13/49466
A61F13/8405 A61K8/0208 A61L15/34
A61L15/40 A61K2800/75 A61Q19/00



GRETCHEN LOUISE ; GRAVES SPALDING VANRIJSWIJCK LAURA ; LOUISE ELDER GRETCHEN ; ROE DONALD C ; ROE DONALD CARROLL ; SCHULTE THOMAS EDWARD ; SCHULTE THOMS E ; SPALDING VANRIJSWIJCK LAURA GRAVES ; AL LAURA G S VANRIJSWIJACK ET ; CARROLL ROE DONALD ; VANRIJSWIJACK LAURA G S ; VANRIJSWIJCK LAURA GRAVES SPAL

Inventor(s):

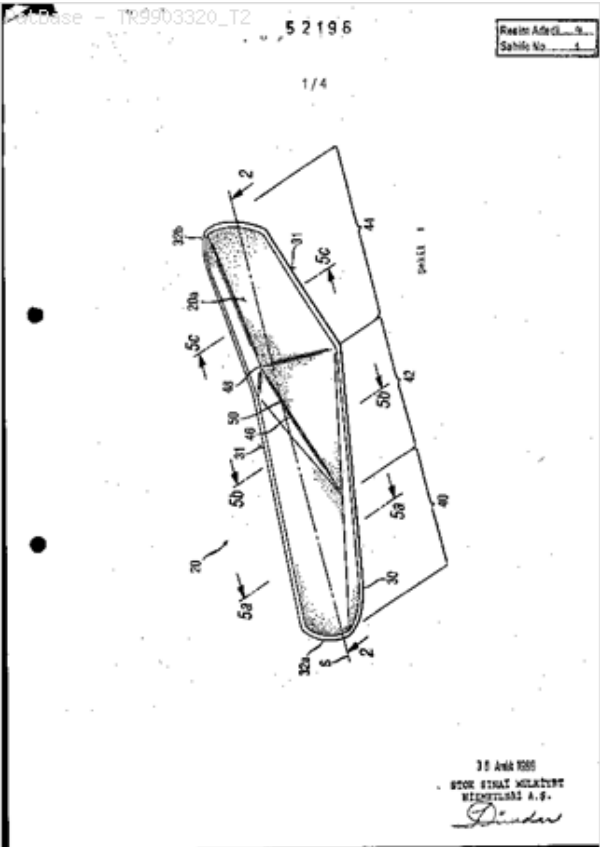
VANRIJSWIJCK LAURA GRAVES SPALDING ; DONALD C ROE ; DONALD CARROLL ROE ; THOMAS EDWARD ; THOMAS EDWARD SCHULTE ; THOMS E SCHULTE ; GRETCHEN LOUISE ELDER ; LAURA G S VANRIJSWIJACK ; LAURA G S VANRIJSWIJACK ET AL ; LAURA GRAVES SPALDING VANRIJSWIJCK

Agent(s):

ALVARO CORREA ORDONEZ

Title: AYUDA PARA EL MANIPULEO DE UN ARTICULO ABSORBENTE DESECHABLE APLICADO AL CUERPO

Abstract:
Source: PE102299A SE REFIERE A UN ARTICULO ABSORBENTE DESECHABLE HECHO PARA LA APLICACION DIRECTA AL CUERPO DEL USUARIO, QUE TIENE UN LADO MIRANDO AL CUERPO Y UN LADO MIRANDO A LA PRENDA, UN PLANO DE SIMETRIA LONGITUDINAL, UN BORDE DEL EXTREMO DELANTERO Y UN BORDE DEL EXTREMO POSTERIOR; Y CUENTA CON UNA LAMINA SUPERIOR PERMEABLE AL AGUA, UNA LAMINA POSTERIOR UNIDA A LA LAMINA SUPERIOR Y UN NUCLEO ABSORBENTE ENTRE DICHAS LAMINAS SUPERIOR Y POSTERIOR; Y CUENTA ADEMAS CON MEDIOS PARA SUJETAR Y APLICAR EL ARTICULO AL CUERPO DEL USUARIO, QUE SE UBICAN EN EL LADO MIRANDO A LA PRENDA DEL ARTICULO ABSORBENTE Y ESTAN ORIENTADOS TRANSVERSALMENTE PARA PERMITIR LA INSERCIÓN DE POR LO MENOS UN DEDO DEL USUARIO PARA SUJETAR Y APLICAR EL ARTICULO ABSORBENTE. TIENE APLICACION EN LA FABRICACION DE ARTICULOS ABSORBENTES DESECHABLES TALES COMO TOALLAS HIGIENICAS, INSERTOS DE INCONTINENCIA Y SIMILARES A disposable **absorbent article** intended for direct application to the user's body, having a body facing surface and a garment facing surface, a longitudinal symmetry plane, a front end edge and a rear end edge, and comprising a liquid pervious topsheet, a backsheet joined to said topsheet and an **absorbent core** intermediate the backsheet and the topsheet. The disposable **absorbent article** comprises means for holding and applying the article to the user's body. The means are located on the garment facing surface of the **absorbent article**, and are oriented transversely to allow the insertion of at least one user's finger for holding and applying the **absorbent article**.



Classifications:
International (IPC 8-9): A61F13/00 A61F13/15 A61F13/472 A61F13/56 A61F13/82 (Advanced/Invention)
International (IPC 1-7): A61F13/15 A61F13/56
CPC: A61F13/47227 A61F13/47263 A61F13/4758 A61F13/5611 A61F13/82 A61F13/84 A61F2013/455 A61F2013/4568
European: A61F13/472B1 A61F13/472D A61F13/475B A61F13/56B2 A61F13/82 A61F13/84 K61F13/45C3A K61F13/45C4

Family:

Publication number	Publication date	Application number	Application date
AR016300 AA	20010704	AR1998P103201	19980701
CO5060494 A1	20010730	CO19980037131	19980701
PE102299 A1	19991210	PE19980000586	19980701
TR9903320 T2	20000921	TR19990003320T	19980629

Priority:
EP19970110734 19970701
Probable Assignee: PROCTER AND GAMBLE
Assignee(s): (std): PROCTER AND GAMBLE

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

Inventor(s): (std): ARESKOUG ALOIS ; WIERLACHER STEFAN ALOIS

Inventor(s): ALOIS ARESKOUG ; STEFAN ALOIS WIERLACHER

Agent(s): CARLOS REINALDO OLARTE GARCIA

Title: ARTICULOS ABSORBENTES DESECHABLES QUE TIENEN UN MEJOR AJUSTE A LA ANATOMIA DEL CUERPO

Abstract:

Source: PE102199A QUE POSEEN UN LADO MIRANDO AL CUERPO Y UN LADO MIRANDO A LA PRENDA, UN PLANO DE SIMETRIA LONGITUDINAL, UN BORDE DEL EXTREMO DELANTERO Y UN BORDE DEL EXTREMO POSTERIOR Y QUE ESTA COMPUESTO POR UNA LAMINA SUPERIOR PERMEABLE AL LIQUIDO, UNA LAMINA POSTERIOR UNIDA A DICHA LAMINA SUPERIOR Y UN NUCLEO ABSORBENTE INTERMEDIO ENTRE DICHAS LAMINAS POSTERIOR Y SUPERIOR. EL NUCLEO ABSORBENTE TIENE UNA SECCION DELANTERA, UNA SECCION CENTRAL Y UNA SECCION POSTERIOR, Y ESTA COMPUESTO POR UN SURCO ORIENTADO LONGITUDINALMENTE EN LAS SECCIONES CENTRAL Y POSTERIOR, QUE TIENE UN PERFIL QUE PERMITE UN MEJOR AJUSTE AL CUERPO. TIENE USO EN LA FABRICACION DE ARTICULOS ABSORBENTES TALES COMO TOALLAS SANITARIAS, TOALLAS HIGIENICAS Y SIMILARES CAPACES DE BRINDAR UN MEJOR AJUSTE AL CUERPO A tridimensional disposable **absorbent article** having a body facing surface and a garment facing surface, a longitudinal symmetry plane, a front end edge and a rear end edge, and comprising a liquid pervious topsheet, a backsheet joined to said topsheet and an **absorbent core** intermediate the backsheet and the topsheet. The **absorbent core** has a front portion, a central portion and a rear portion, and comprises a longitudinally oriented ridge in the central and rear portion having a profile that provides for an increased body fit.

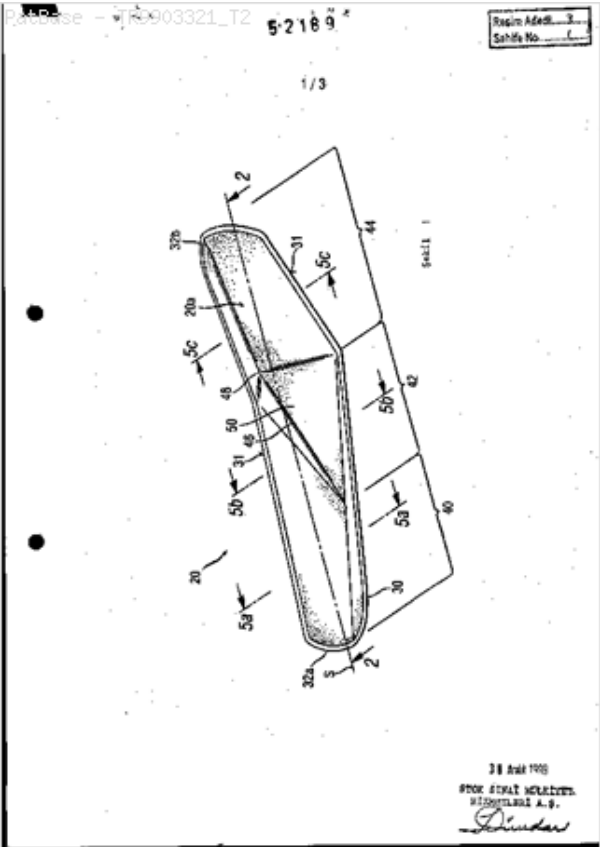
Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/472 A61F13/514 (Advanced/Invention)

International (IPC 1-7): A61F13/15

CPC: A61F13/47227 A61F13/47263 A61F13/4758 A61F2013/455 A61F2013/4568

European: A61F13/472B1 A61F13/472D A61F13/475B K61F13/45C3A K61F13/45C4



Family:

Publication number	Publication date	Application number	Application date
AR016124 AA	20010620	AR1998P103200	19980701
CO5060493 A1	20010730	CO19980037135	19980701
PE102199 A1	19991210	PE19980000585	19980701
TR9903321 T2	20000921	TR19990003321T	19980629

Priority:

EP19970110735 19970701

Probable Assignee: PROCTER AND GAMBLE

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

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

Inventor(s): (std): ARESKOUG ALOIS ; LAVASH BRUCE WILLIAM ; WIERLACHER STEFAN ALOIS

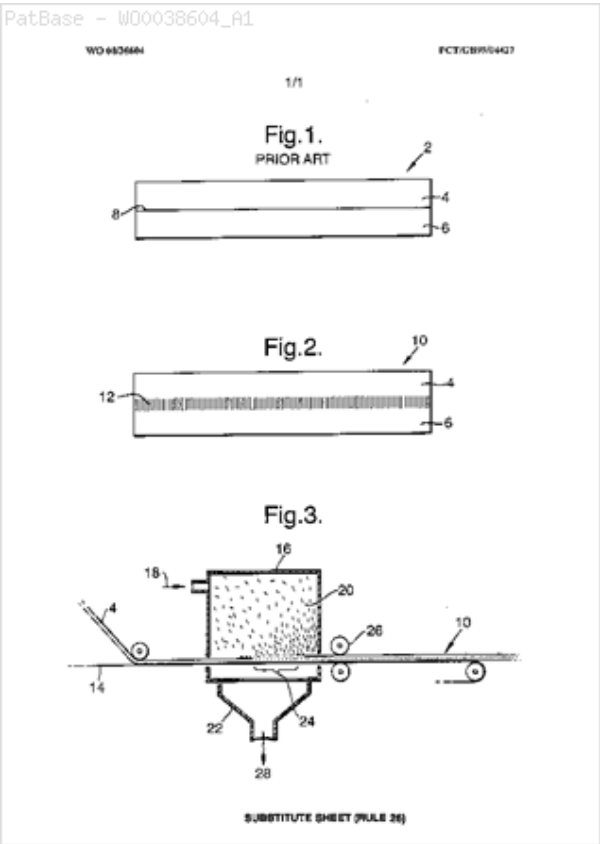
Inventor(s): ALOIS ARESKOUG ; STEFAN ALOIS WIERLACHER ; BRUCE WILLIAM LAVASH

Agent(s): CARLOS REINALDO OLARTE GARCIA

Title: AN ABSORBENT ARTICLE AND PROCESS FOR PRODUCTION THEREFOR

Abstract:
A laminate material comprising at least two contiguous layers, with at least one layer comprising fibrous material, at least one layer comprising a superabsorbent and wherein at least one of the layers interpenetrates the other so that the boundary between the layers is diffuse.

Classifications:
International (IPC 8-9):
A61F13/15 (Advanced/Invention)
International (IPC 1-7): A61F13/15
CPC: A61F13/15658 A61F13/534 A61F13/53743 A61F13/539 A61F2013/530481 A61F2013/53782 A61F2013/53966 A61F2013/53975
European: A61F13/15M3G A61F13/534 A61F13/537C A61F13/539 K61F13/537E4 K61F13/539E K61F13/539G K61F13/53Q



Family:

Publication number	Publication date	Application number	Application date
CA2355746 AA	20010620	CA19992355746	19991223
EP1139953 A1	20011010	EP19990962460	19991223
GB9828587 A0	19990217	GB19980028587	19981223
GB9909586 A0	19990623	GB19990009586	19990426
WO0038604 A1	20000706	WO1999GB04427	19991223

Priority:
GB19980028587 19981223 GB19990009586 19990426 WO1999GB04427 19991223

Probable Assignee: CAMELOT TECHNOLOGIES LTD

Assignee(s): (std): CAMELOT TECHNOLOGIES LIMITED ; CAMELOT TECHNOLOGIES LTD ; CHEYNE IAN ; DAN ERVIN ; RITTER STEPHEN DAVID

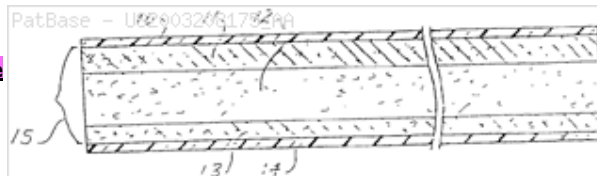
Inventor(s): (std): CHEYNE IAN ; DAN ERVIN

Agent(s): OGILVY RENAULT

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

Title: ABSORBENT PRODUCTS WITH IMPROVED VERTICAL WICKING AND REWET CAPABILITY**Abstract:**

Source: US2003208175A The present invention relates to an **absorbent core** for use in an **absorbent article** and methods to make the **absorbent core** and **absorbent articles**. The **absorbent core** has a discrete wicking layer made with compressible fibers such as eucalyptus or chemically treated fibers. The **absorbent core** and articles made with it have improved vertical wicking capacity and superior rewet characteristics.

**Classifications:**

International (IPC 8-9): A41B9/12 A61B19/08 A61F13/00 A61F13/15 A61F13/472 A61F13/49 A61F13/51 A61F13/53 A61F13/534 A61F13/536 A61F13/537 A61F5/44 A61L15/16 A61L15/18 A61L15/20 A61L15/60 B32B5/26 B32B5/30 D04H1/42 D04H1/70 D04H13/00 (Advanced/Invention); A61F13/536 A61F5/44 D02G3/00 D04H1/42 (Advanced/Non-invention); A41B9/00 A61B19/00 A61F13/00 A61F13/15 A61F5/44 A61L15/16 D04H13/00 (Core/Invention)

International (IPC 1-7): A41B9/12 A61B19/08 A61F13/00 A61F13/15 A61F13/46 A61F13/49 A61F13/51 A61F13/53 A61F13/534 A61F13/536 A61F13/537 A61F5/44 A61L15/16 A61L15/18 A61L15/60 B32B27/02 B32B31/00 B32B5/26 B32B5/30 D02G3/00 D04H1/42 D04H1/70 D04H13/00

CPC: A61F13/536 A61F13/53747 A61F13/53756 A61F13/5376 A61F2013/15422 A61F2013/1543 D04H13/003 A61F13/535 Y10T428/24554 Y10T428/24562 Y10T428/2457 Y10T428/24579 Y10T428/2481 A61F13/5323 A61F13/15617 D04H13/002 D04H13/006 D04H13/007 Y10T442/664 Y10T442/671 Y10T442/673 Y10T442/692 Y10T442/697 Y10T442/698 Y10T442/699

European: A61F13/15M3 A61F13/532B A61F13/535 A61F13/536 A61F13/537C2 A61F13/537C8 A61F13/537D D04H13/00B2 D04H13/00B3 D04H13/00B4 D04H13/00B5 K61F13/15J8H K61F13/15J8H1

US: 128/849 128/849S 428/165 428/166 428/167 428/168 428/196 442/385 442/392 442/393 442/411 442/415 442/416 442/417 602/43 602/43P 604/367 604/375 604/375S 604/378 604/378S 604/38 604/380

Family:

Publication number	Publication date	Application number	Application date
AR026549 AA	20030219	AR2000P106124	20001121
AR029638 AA	20030710	AR2000P102627	20000526
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CA2397938 AA	20020719	CA20012397938	20010130
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CO5200786 A1	20020927	CO20000088046	20001120
CO5200787 A1	20020927	CO20010006975	20010131
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EP1214465 A1	20020619	EP20000937813	20000525
EP1242017 A1	20020925	EP20000978767	20001117
EP1263374 A1	20021211	EP20010903417	20010130
EP1263374 B1	20041117	EP20010903417	20010130
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JP2013046817 A2	20130307	JP20120242612	20121102
JP5230048 B2	20130710	JP20010555621T	20010130
KR20020025873 A	20020404	KR20017014939	20011122
KR20020080386 A	20021023	KR20027009472	20020724
MXPA02005020 A1	20030523	MX2002PA05020	20001117
PE06552001 A1	20010619	PE20000001240	20001120
PE10362001 A1	20011012	PE20010000113	20010131
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TH47002 A	20010906	TH20001004468	20001120
TW499309 B	20020821	TW20000110126	20000726
TW567061 B	20031221	TW20000124555	20010201
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US2003208175 AA	20031106	US20010774248	20010130
US2010137773 AA	20100603	US20090636423	20091211
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WO0071790 A1	20001130	WO2000US14538	20000525
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WO0135886 A1	20010525	WO2000US31627	20001117
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Priority:

US19990135912P 19990525	US19990166489 19991119	US19990166489P 19991119
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US20010774248 20010130	US20090636423 20091211	WO2001US02971 20010130
JP20010555621 20010130		

Probable Assignee: BUCKEYE TECHNOLOGIES INC

Assignee(s): (std): BUCKEYE TECHNOLOGIES INC ; CAMPBELL ALAN JEFFREY ; ERSPAMER JOHN ; HURLEY JEFFREY S ; ERSPAMER JOHN P ; WAHAL SANJAY ; HOOD RYAN K ; KALMAN MICHAEL ; DUTKIEWICZ JACEK K ; KALMON MICHAEL ; GROSS JAMES R ; BAKER JOHN PERRY ; BETTS DERRIX ; BKI HOLDING CORP ; BKT HOLDING CORP ; BOEHMER BRIAN E

Assignee(s): BKI HOLDING CORP WILMINGTON ; BANK OF AMERICA NA COLLATERAL AGENT AS ; FLEET NATIONAL BANK ; DUTKIEWICZ JACEK K

Inventor(s): (std): BRIAN E BOEHMER ; CAMPBELL ALAN JEFFREY ; DERRIX BETIS ; DERRIX BETTS ; DUTKIEWICZ JACEK K ; DUTKIEWICZ JACEK K ; ERSPAMER J ; ERSPAMER JOHN ; ERSPAMER JOHN P ; GROSS JAMES R ; HOOD RYAN K ; HOOD RYAN K AND ; HURLEY J S ; HURLEY JEFFREY S ; HURLEY JEFFREY SCOTT ; BETTS DERRIX ; BOEHMER B E ; BOEHMER BRIAN ; BOEHMER BRIAN E ; JACEK K DUTKIEWICZ ; JEFFREY S HURLEY ; JOHN ERSPAMER ; KALMAN MICHAEL ; KALMON MICHAEL ; PERRY BAKER JOHN ; RYAN K HOOD ; SAJAY WAHAL ; WAHAL SANJAY ; MICHAEL KALMON ; GROSS R ; ERSPAMER P ; BOEHMER E ; BAKER PERRY ; BAKER JOHN PERRY

Inventor(s): BE BOEHMER ; BETIS DERRIX ; JOHN P. ERSPAMER ; JAMES R. GROSS ; J S HURLEY ; B E BOEHMER ; SANJAY WAHAL ; JOHN PERRY BAKER ; JACEK K DUTKIEWICZ ; WAHAL SAJAY ; MICHAEL KALMAN ; JS HURLEY ; BRIAN

BOEHMER ; J ERSPAMER

Agent(s):

DAVIES COLLISON CAVE; ROBIC; GOUDREAU GAGE DUBUC; LUIS FELIPE
CASTILLO GIBSON; GERMAN CASTILLO GRAU; BAKER BOTTS LLP

Designated states:

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

Title: DOUBLE-SIDED COATED FIBROUS WEB **ABSORBENT ARTICLE**

Abstract:
An **absorbent article** comprising at least one double-sided coated fibrous web having a storage layer on one side and an **acquisition layer** on the other side and/or a combination of at least **two** adhering double-sided coated webs with the proviso that one web has a storage layer on both sides and the other web has an **acquisition layer** on both sides wherein said layers are obtained by (a) forming a blend comprising one or more monomers forming **superabsorbent** polymers, **superabsorbent** polymer particles, water, and one or more initiators, said blend having a viscosity of at least 20 mPas (measured at 20 degrees centigrade in a Brookfield viscometer, spindle 02, 20 rpm) (b) applying said blend onto a fibrous web and (c) carrying out the polymerization of the monomers forming **superabsorbent** polymers and a disposable hygiene article containing said **absorbent article**.

Classifications:
International (IPC 8-9): A61L15/42 A61L15/60 (Advanced/Invention);
A61L15/16 (Core/Invention)
International (IPC 1-7): A61F13/15 A61L15/42 A61L15/60
CPC: A61L15/42 A61L15/60
European: A61L15/42 A61L15/60

Family:

Publication number	Publication date	Application number	Application date
AU2002338987 AA	20021203	AU20020338987	20020518
WO02094328 A2	20021128	WO2002EP05534	20020518
WO02094328 A3	20030403	WO2002EP05534	20020518
WO02094328 B1	20031218	WO2002EP05534	20020518

Priority:
US20010292511P 20010523 US20010341286P 20011220 WO2002EP05534 20020518

Probable Assignee: BASF AG
Assignee(s): (std): BASF AG ; ENGELHARDT FRIEDRICH ; WHITMORE DARRYL L
Assignee(s): BASF AKTIENGESELLSCHAFT
Inventor(s): (std): ENGELHARDT FRIEDRICH ; WHITMORE DARRYL L
Inventor(s): DARRYL L WHITMORE ; FRIEDRICH ENGELHARDT
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 US UZ VN YU ZA ZM ZW

Title: Absorbent article with bimodal acquisition layer

Abstract:
Source: US2003088229A A disposable absorbent garment including a topsheet, a backsheet, a storage layer, and an acquisition layer is disclosed. The acquisition layer lies between the topsheet and the storage layer, and includes at least two yarns oriented generally parallel with the longitudinal axis of the article, with an acquisition channel between each adjacent pair of yarns. The acquisition channels provide free volume for temporary fluid storage until the fluids can be absorbed by the storage layer and allow fluids to move to the longitudinal ends of the article. The yarns store fluids until they are absorbed, and wick fluids away from the topsheet to keep the user dry. Each yarn may have properties specifically tailored to provide particular benefits depending on each yarn's location in the garment. The absorbent garment using such an acquisition layer is comfortable, highly absorbent, and economical to produce.

Classifications:

International (IPC 8-9):

A61F13/15 (Advanced/Invention);

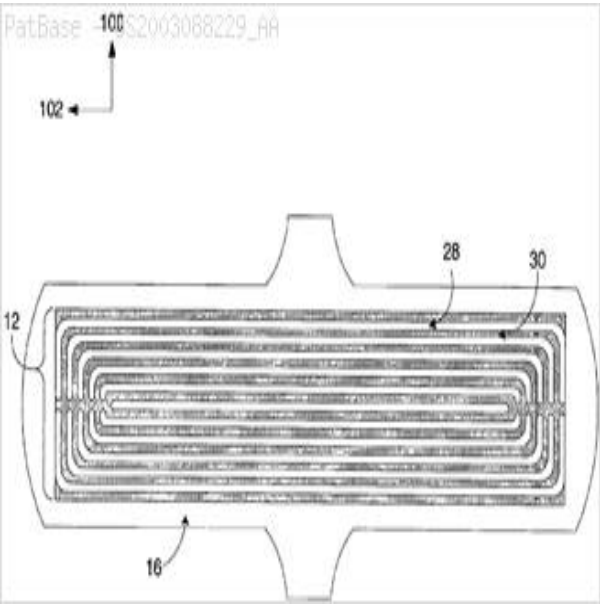
A61F13/15 (Core/Invention)

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

CP: A61F13/53717 A61F13/53747 A61F13/5376 A61F13/538 A61F2013/15447 A61F2013/53778

European: A61F13/537B4 A61F13/537C2 A61F13/537D A61F13/538 K61F13/15J8L K61F13/537E3

US: 604/378 604/378S 604/384 604/384S 604/385.101 604/385.101P



Family:

Publication number	Publication date	Application number	Application date
AU2002353962 AA	20030519	AU20020353962	20021101
US2003088229 AA	20030508	US20010985453	20011102
WO03039402 A2	20030515	WO2002US35078	20021101
WO03039402 A3	20040226	WO2002US35078	20021101

Priority:

US20010985453 20011102 WO2002US35078 20021101

Probable Assignee: PARAGON TRADE BRANDS INC

Assignee(s): (std): BAKER ANDREW ; NAUGHTON SAUNDRA ; PARAGON TRADE BRANDS INC

Inventor(s): (std): BAKER ANDREW ; NAUGHTON SAUNDRA

Inventor(s): SAUNDRA NAUGHTON ; ANDREW BAKER

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 VC VN YU ZA ZM ZW

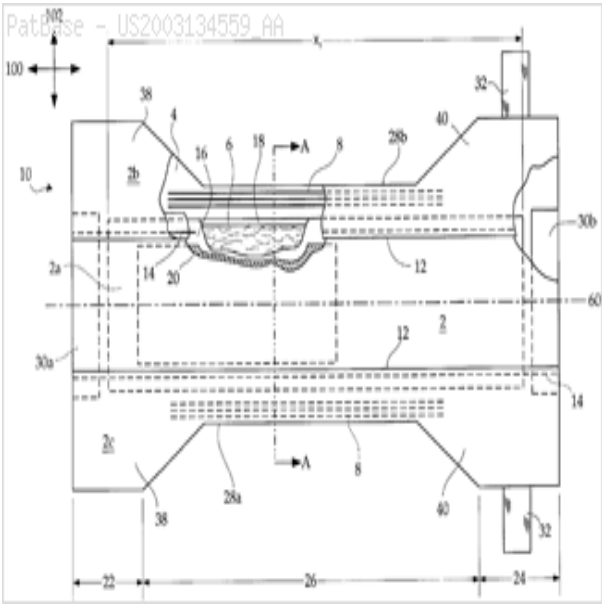
Title: SYSTEM AND METHOD FOR DRY FORMING **ABSORBENT CORES**

Abstract:
Source: US2003134559A An apparatus and method for dry forming **absorbent cores** are disclosed. The apparatus has a rotatable drum having a substantially cylindrical surface. A vacuum surface having one or more holes is located substantially circumferentially around at least a portion of the substantially cylindrical surface. A vacuum chamber is located within the rotatable drum. The vacuum chamber has one or more vacuum passages forming a vacuum zone subadjacent at least a portion of the vacuum surface. A first casing sheet is supplied to overlie the vacuum surface at a first location, and a fibrous material is supplied to overlie the first casing sheet at a second location. A supply of particulate matter is deposited onto the fibrous material at a third location, and a second casing sheet is supplied to overlie the first casing sheet, fibrous material and particulate matter at a fourth location, thereby forming an **absorbent core** composite.

Classifications:
International (IPC 8-9): A01J21/00 A01J25/12 A21C11/00 A21C3/00 A61F13/00 A61F13/15 A61F13/20 A61F13/49 A61F13/53 A61F13/53A A61F13/539 A61F13/56 A61F13/58 A61F15/00 A61F5/44 A61L15/28 A61L15/60 B27N1/00 B27N3/00 B28B5/00 B29C43/22 B29C44/20 B32B5/30 D04H1/20 (Advanced/Invention); A61F13/494 (Advanced/Non-invention); A61F13/00 A61F13/15 A61F13/56 A61F5/44 (Core/Invention); A61F (Subclass/Invention)
International (IPC 1-7): A01J21/00 A01J25/12 A21C11/00 A21C3/00 A61F0/00 A61F13/00 A61F13/15 A61F13/20 A61F13/49 A61F13/53 A61F13/53A A61F13/539 A61F13/56 A61F13/58 A61F15/00 A61F5/44 B27N1/00 B27N3/00 B28B5/00 B29C43/22 B29C44/20 B32B27/12 B32B31/00 B32B5/16 B32B5/26 C09J1/00 D04H1/00 D04H1/20 D04H13/00 D04H3/00 D04H5/00 D29D7/00
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Family:

Publication number	Publication date	Application number	Application date
AT373456 E	20071015	AT20030701283T	20030110
AU2003202268 AA	20030902	AU20030202268	20030110
CA2473543 AA	20040715	CA20032473543	20030110
CA2519671 AA	20050920	CA20042519671	20040324
CA2521691 AA	20051006	CA20042521691	20040405
CA2579696 AA	20070307	CA20052579696	20050926



CA2580602 AA	20070314	CA20052580602	20050112
DE60316409 D1	20071031	DE20036016409	20030110
EP1474070 A2	20041110	EP20030701283	20030110
EP1474070 A4	20050323	EP20030701283	20030110
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EP1610934 A2	20060104	EP20040758043	20040324
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JP2005515020 T2	20050526	JP20030561470T	20030110
MX2007003549 A1	20070523	MX20070003549	20050926
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Priority:

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WO2005US00964	20050112	WO2004US10404	20040405		

Probable Assignee: PARAGON TRADE BRANDS

Assignee(s): (std): FIRST QUALITY RETAIL SERVICES LLC ; GLAUG FRANK ; LITVAY JOHN ; LITVAY JOHN D ; TYCO HEALTHCARE RETAIL SERVICE ; PARAGON TRADE BRANDS INC ; WAKSMUNDZKI ANDREW ; EGTED WALTER ; TYCO HELTHCARE RETAIL SERVICES ; TYCO HEALTHCARE RETAIL SERV AG ; TYCON HEALTHCARE RETAIL SERVIC ; TYCO HEALTHCARE RETAIL SERVICES AG ; PARAGON TRADE BRANDS ; WALTER JOHN

Assignee(s): DELZER TROY ; PARAGON TRADE BRANDS LLC ; TYCO HEALTHCARE RETAIL GROUP INC ; TYCO HOALTHCARE RETAIL SERVICES AG ; JPMORGAN CHASE NA

; TYCON HEALTHCARE RETAIL SERVICES AG ; EGYED WALTER ; TYCO
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BANK NA

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HANSEN ; DELZER TROY ; WAKSMUNDZKI ANDREW ; HANSEN EBBA ; EGTED
WALTER ; GLAUG FRANK ; LITVAY JOHN ; LITVAY JOHN D

Inventor(s): WALTER EGTED ; ANDREW WAKSMUNDZKI ; JOHN LITVAY ; FRANK GLAUG

Agent(s): PIASETZKI AND NENNIGER LLP; BERESKIN AND PARR LLP SENCRL SRL; BLAKE
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AND WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT; MARK S
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WILLIAMS; SPILMAN THOMAS AND BATTLE PLLC

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
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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: **ABSORBENT ARTICLES** CONTAINING MULTI-COMPONENT CORE COMPOSITE AND METHODS OF MAKING SAME

Abstract:
Source: US2003135177A The present invention relates generally to a multi-component **absorbent core** composite for an **absorbent article**, and more particularly to a multi-component **absorbent core** composite comprising at least **two absorbent core** units having different properties, whereby at least one of the **absorbent core** units includes a mixture of tow fibers and **superabsorbent** polymer (SAP) particles. The at least **two absorbent core** units are associated and arranged with one another to form the multi-component **absorbent core** composite. Such core composites provide the flexibility of creating precise zoning of particular properties throughout the core, provide improved comfort and fit, and provide less costly means of using expensive core ingredients

Classifications:

International (IPC 8-9):

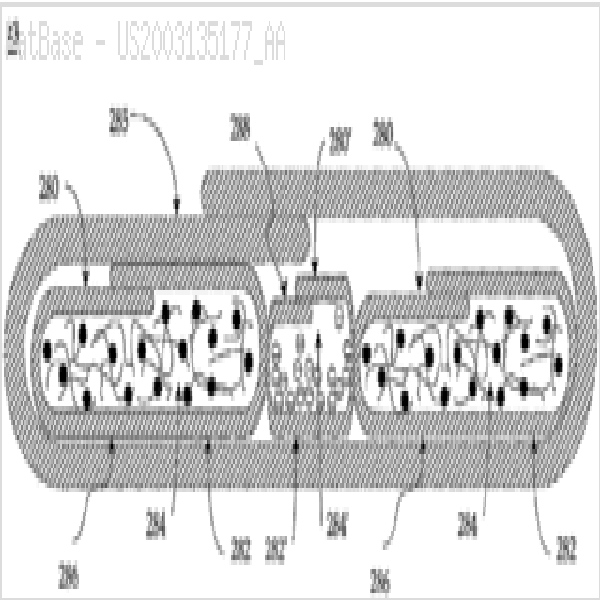
A61F13/15 (Advanced/Invention);
A61F13/15 (Core/Invention)

International (IPC 1-7): A61F13/15

CPC: A61F13/15634 A61F13/5323 A61F13/535
A61F2013/53051

European: A61F13/15M3C A61F13/532B
A61F13/535 K61F13/53Q2

US: 604/368 604/368P 604/378 604/378S 604/385.28 604/385.280S 604/386 604/386S



Family:

Publication number	Publication date	Application number	Application date
US2003135177 AA	20030717	US20020046554	20020116

Priority:

US20020046554 20020116

Probable Assignee: PARAGON TRADE BRANDS INC

Assignee(s): BAKER ANDREW ; PARAGON TRADE BRANDS INC

Inventor(s): (std): BAKER ANDREW

Title: DRY FORMED COMPOSITE WITH CUT AND PLACE LAYERS

Abstract:

Source: US2003150551A The present invention generally relates to a method and apparatus for forming an absorbent garment and an absorbent composite core. The absorbent composite core preferably is comprised of at least four layers, whereby **two** of the layers are outer layers, (an upper layer and a lower layer), one of the inner layers is a central fibrous layer containing a mixture of tow fibers and SAP, and the other inner layer is at least one layer selected from an **acquisition layer**, a distribution layer, an additional fibrous layer optionally containing SAP, a wicking layer, a storage layer, a dryness layer, a softness layer, or combinations and fragments thereof.

Classifications:

International (IPC 8-9): A61F13/15
B32B33/00 B32B37/14

B32B38/00 (Advanced/Invention);
A61F13/15 (Core/Invention)

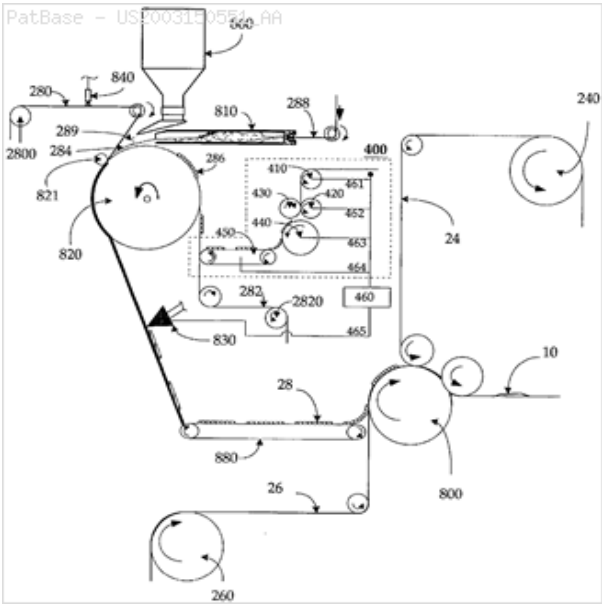
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B32B31/00 B32B31/08 B32B31/18

CPC: Y10T156/1077 Y10T156/1084 Y10T156/12
Y10T156/133 Y10T156/1339 Y10T156/1734

A61F13/535 A61F13/15626 A61F13/15723 A61F13/537

European: A61F13/15M3B A61F13/15M6B A61F13/535 A61F13/537

US: 156/265 156/269 156/510 156/519 156/519S 156/521 156/552 264/112 264/122



Family:

Publication number	Publication date	Application number	Application date
AU2003210931 AA	20030904	AU20030210931	20030210
CA2476272 AA	20040816	CA20032476272	20030210
CA2476272 C	20110315	CA20032476272	20030210
MXPA04007868 A1	20041126	MX2004PA07868	20030210
US2003150551 AA	20030814	US20020074215	20020214
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WO03068122 A1	20030821	WO2003US03838	20030210

Priority:

US20020074215 20020214 WO2003US03838 20030210

Probable Assignee: PARAGON TRADE BRANDS INC

Assignee(s): (std): PARAGON TRADE BRANDS INC

Assignee(s): PARAGON TRADE BRANDS LLC ; BAKER ANDREW ; JP MORGAN CHASE BANK NA ; JPMORGAN CHASE NA

Inventor(s): (std): ANDREW BAKER ; BAKER ANDREW

Agent(s): PIASETZKI AND NENNIGER LLP; PIASETZKI NENNIGER KVAS LLP

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 SC 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

Title: DISPOSABLE **ABSORBENT ARTICLE** DESIGNED TO FACILITATE AN EASY INTUITIVE CHANGE

Abstract:

Source: US2003158532A A disposable **absorbent article** to be worn about the lower torso of a wearer that facilitates an easy, intuitive change is provided. The disposable **absorbent article** includes at least one serviceable indicium that facilitates an easy, intuitive change by aligning the article relative to an anatomical feature of the wearer or relative to a component of the article thereby enhancing the fit and corresponding performance of the article.

Classifications:

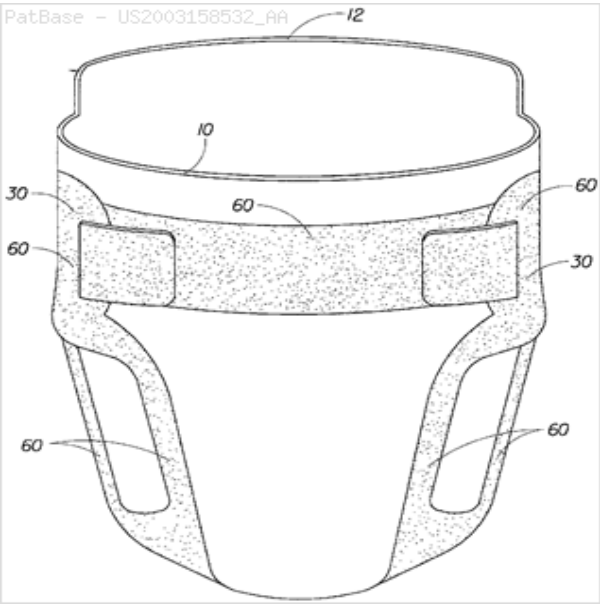
International (IPC 8-9): A61F13/15 A61F13/42 A61F13/49 A61F13/493 A61F13/495 A61F13/496 A61F13/511 A61F13/513 A61F13/56 A61F13/62 A61F13/84 A61F5/44 G06Q30/00 G06Q30/02 G06Q30/06 G06Q40/00 G06Q40/02 (Advanced/Invention); A61F13/15 A61F13/49 A61F13/514 A61F13/56 A61F13/62 A61F13/84 (Advanced/Non-invention); A61F13/15 (Core/Invention); A61F13/56 (Core/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/42 A61F13/49 A61F13/56 A61F13/84 A61F5/44 A6AF13/15

CPC: A61F13/5638 A61F13/49007 A61F13/84 A61F13/51394 A61F13/51496 A61F2013/51377 A61F13/495 A61F13/5622 A61F2013/8497 G06Q30/02 G06Q30/06 G06Q40/02 A61F13/5633

European: A61F13/495 A61F13/496 A61F13/49D2B A61F13/49D2D A61F13/49D2E A61F13/56C A61F13/84 G06Q30/02 G06Q30/06 G06Q40/00 G06Q40/02 G06Q40/06 K61F13/495 K61F13/84G

US: 604/358 604/358P 604/361 604/385.01 604/385.010P 604/385.16 604/385.160P 604/385.24 604/385.25 604/385.28 604/385.3 604/385.300S 604/386 604/386S 604/389 604/390 604/391 604/391P 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

Assignee(s): (std): GLACKIN GEORGE B ; HOSMER CHRISTOPHER J ; KLINE MARK J ; GLACKIN GEORGE B III ; JEWELL KENNETH E ; JEWELL KENNETH EDWIN ; GLACKIN III GEORGE B ; MAGEE LUKE R ; KORN NAOMI S ; WILSON JAMES D ; SCHMIDT MATTIAS ; THURNAY EVA SUSANNE DOMINIQUE ; MUELLER JOERGE ; SULLIVAN ANN M ; ROE DONALD C ; PROCTER AND GAMBLE ; BATES MARK C ; COSTELLO JOHN C ; PROCTER AND GAMBLE CO ; THURNAY EVA S D ; MUELLER JOERG ; FLENDER GREGG A

Assignee(s): FLENDER GREGG ALLEN ; KLINE MARK JAMES ; SULLIVAN ANN MARIE ; ROE DONALD CARROLL ; MAGEE LUKE ROBINSON ; WILSON JAMES DOUGLAS ; KORN NAOMI SHOSHANA ; PROCTOR AND GAMBLE CO ; COSTELLO JOHN CARL ; BATES MARK CHRISTOPHER ; THE PROCTER AND GAMBLE COMPANY ; HOSMER CHRISTOPHER JOHN ; GLACKIN GEORGE BARTOL III ; GLACKIN III GEORGE BARTOL ; GLACKIN III GEORGE BARTOL

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Inventor(s): WILSON ; THURNAY EVA SUSANNE DOMINIQUE ; THURNAY EVA SD ; THURNAY ; SULLIVAN ; FLENDER ; SCHMIDT ; ROE ; MAGEE ; MUELLER ; KORN ; KLINE ; JEWELL KENNETH ; GLACKIN GEORGE BIII ; HOSMER ; GEORGE BARTOL

GLACKIN III ; GLACKIN ; GLACKIN GEORGE ; DOUGLAS WILSON JAMES ;
DOMINIQUE THURNAY EVA ; COSTELLO ; BATES

Agent(s):

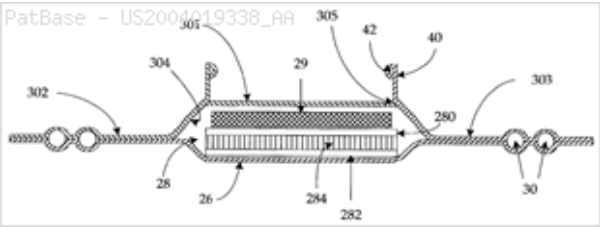
WATERMARK PATENT AND TRADE MARKS ATTORNEYS; DIMOCK STRATTON
LLP; ESTUDIO CAREY LTDA; FRANCISCO CAREY CARVALLO; MCGREGOR JUDIT
ESTER; KREMER VERONIQUE MARIE JOSEPHINE; DE ELZABURU ALBERTO;
NAGAI HIROSHI; SPRUSON AND FERGUSON PTE LTD; THE PROCTER AND
GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND
GAMBLE CO INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO
INTELLECTUAL PROPERTY DIVISION WEST BLDG; THE PROCTER AND GAMBLE
COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO
GLOBAL LEGAL DEPARTMENT IP; THIBAUT; JAY A; AMANDA T; MEGAN C;
ANDREW J; LAURA L; GEORGE H

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
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SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Title: **ABSORBENT ARTICLES** CONTAINING **ABSORBENT CORES** HAVING ZONED ABSORBENCY AND METHODS OF MAKING SAME

Abstract:
Source: US2004019338A The present invention relates generally to an **absorbent core** for an **absorbent article**, and more particularly to an **absorbent core** having zoned absorbency due to specific placement of adhesives or specific lack of adhesive. Such **absorbent cores** provide the flexibility of creating precise zoning of particular properties throughout the core, and they provide improved comfort and fit.



Classifications:
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/494 A61F13/53 A61F13/56 A61F5/44 (Advanced/Invention);
A61F13/15 A61F13/56 A61F5/44 (Core/Invention)
International (IPC 1-7): A61F13/15 A61F13/20 A61F13/49 A61F13/494 A61F13/53 A61F13/56 A61F5/44
CPC: A61F13/535 A61F13/537 A61F2013/53051 A61F2013/53445
European: A61F13/535 K61F13/534C K61F13/535 K61F13/537 K61F13/53Q2
US: 604/367 604/367P 604/368 604/378 604/378S 604/379 604/380 604/382 604/385.01

Family:

Publication number	Publication date	Application number	Application date
AU2003249293 AA	20040209	AU20030249293	20030717
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CA2492455 C	20110315	CA20032492455	20030717
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Priority:
US20020200334 20020723 WO2003US22218 20030717

Probable Assignee: PARAGON TRADE BRANDS INC

Assignee(s): (std): PARAGON TRADE BRANDS INC ; PARAGON TRADE BRANDS LLC

Assignee(s): BAKER ANDREW ; JP MORGAN CHASE BANK NA ; JPMORGAN CHASE NA ; LITVAY JOHN

Inventor(s): (std): BAKER ANDREW ; LITVAY JOHN

Inventor(s): ANDREW BAKER ; JOHN LITVAY

Agent(s): PIASETZKI AND NENNIGER LLP; PIASETZKI NENNIGER KVAS LLP; AMSTER ROTHSTEIN AND EBENSTEIN LLP

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 PG PH PL PT RO RU SC 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

Title: SANITARY ELASTICIZED MALE GUARD

Abstract:

Source: US2004024377A A disposable sanitary **absorbent article** such as an absorbent pad (e.g., male guard) is provided which is defined by opposed lateral sides and opposed longitudinal sides extending between said lateral side, comprising a topsheet, a backsheet and an **absorbent core** disposed therebetween having opposed lateral sides and opposed longitudinal sides extending between said lateral sides of said **absorbent core**, an adhesive layer attached to said backsheet and a release paper strip covering the adhesive layer. The longitudinal sides or edges of the pad define side flaps outwardly relative to the longitudinal sides of the **absorbent core**, and at least **two** spaced apart elastic members are secured along each longitudinal side flap, with each elastic member having **two** active ends, at least one of which is located outwardly relative to the corresponding end of the adhesive layer.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/471 A61F13/475

A61F13/534 (Advanced/Invention);

A61F13/15 A61F13/20 (Core/Invention)

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

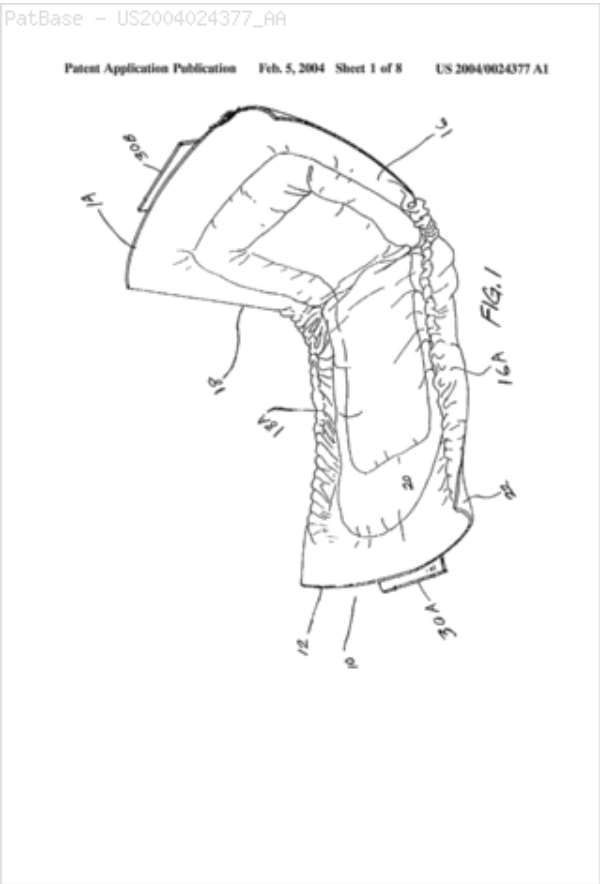
CPC: A61F13/475 A61F13/4752

European: A61F13/15B1M A61F13/475

A61F13/475A1

US: 604/367 604/367S 604/378 604/385.03

604/385.24 604/385.240P



Family:

Publication number	Publication date	Application number	Application date
US2004024377 AA	20040205	US20020208615	20020730
US7172584 BB	20070206	US20020208615	20020730

Priority:

US20020208615 20020730

Probable Assignee: FIRST QUALITY PRODUCTS INC

Assignee(s): (std): FIRST QUALITY ENTPR INC ; FIRST QUALITY PRODUCTS INC

Assignee(s): FIRST QUALITY PRODUCTS INC AND FIRST QUALITY BABY ; FIRST QUALITY PRODUCTS INC AND FIRST QUALITY BABY PRODUCTS LLC ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE NA ; CITIZENS BANK OF PENNSYLVANIA ; FIRST QUALITY ENTERPRISES INC

Inventor(s): (std): KARAMI HAMZEH

Agent(s): AMSTER ROTHSTEIN AND EBENSTEIN LLP

Title: METHOD FOR MAKING CHEMICALLY CROSS-LINKED CELLULOSIC FIBER IN THE SHEET FORM

Abstract:

Source: US2004177935A The present invention is directed to cross-linked cellulosic fiber in the sheet form, obtainable by cross-linking a blend of mercerized pulp and conventional pulp. The method includes heating treated cellulosic fibers to promote intra-fiber cross-linking. The cross-linked fibers are characterized by an improved acquisition rate, resiliency, absorbency, and absorbency under load. Moreover, the inventive cross-linked fibers exhibit a reduction in centrifuge retention capacity, and have low knots, nits and fines contents. The cross-linked cellulosic fibers of the invention are useful in the **acquisition layer** and/or **absorbent core** of **absorbent articles**.

Classifications:

International (IPC 8-9): A61F13/15 A61L15/28 D21B1/00 D21C9/00 D21H11/18 D21H11/20 D21H17/39 (Advanced/Invention);

A61F13/15 A61L15/16 D21C9/00 (Core/Invention)

International (IPC 1-7): D06M13/00

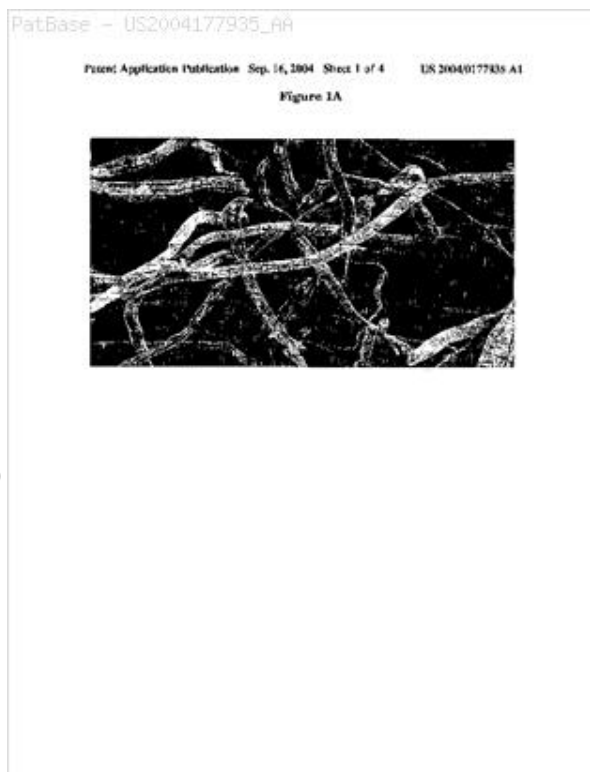
D06M13/192 D21B D21B1/00 D21C9/00

D21H11/18 D21H11/20 D21H17/39

CPC: A61F13/53 A61F13/537 A61L15/28 D21C9/002

European: A61F13/53 A61F13/537 A61L15/28 D21C9/00B2

US: 162/157.6 162/157.600S 162/9 162/9P 604/375 604/375S 604/378 604/378S 8/116.1 8/116.100S



Family:

Publication number	Publication date	Application number	Application date
CA2518145 AA	20050902	CA20042518145	20040315
EP1611279 A2	20060104	EP20040720799	20040315
EP1611279 A4	20071024	EP20040720799	20040315
US2004177935 AA	20040916	US20030387485	20030314
US2005045290 AA	20050303	US20040965976	20041018
WO04083518 A2	20040930	WO2004US07728	20040315
WO04083518 A3	20050106	WO2004US07728	20040315

Priority:

US20030387485 20030314 WO2004US07728 20040315 US20040965976 20041018

Probable Assignee: RAYONIER PRODUCTS AND FINANCIAL SERVICES CO

Assignee(s): (std): RAYONIER PROD AND FNCL SERV CO

Assignee(s): RAYONIER PRODUCTS AND FINANCIAL SERVICES CO ; RAYONIER PRODUCTS AND FINANCIAL SERVICES COMPANY ; SEARS KARL ; CHMIELEWSKI HARRY J ; HAMED OTHMAN A ; MURGUIA TINA R

Inventor(s): (std): CHMIELEWSKI HARRY J ; HAMED OTHMAN A ; MURGUIA TINA R ; SEARS KARL

Inventor(s): CHMIELEWSKI HARRY ; MURGUIA TINA ; HAMED OTHMAN

Agent(s): BERESKIN AND PARR; HUNTON AND WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT

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
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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: MATERIALS USEFUL IN MAKING CELLULOSIC ACQUISITION FIBERS IN SHEET FORM**Abstract:**

Source: US2005079361A Embodiments of the invention relate to a modifying agent for making cellulosic based acquisition fibers in the sheet form, the modifying agent being the reaction product of a polycarboxylic acid compound and a polyfunctional epoxy compound. A method of producing the cellulosic based acquisition fiber in the sheet form from using the modifying agent includes treating the cellulosic fibers in the sheet form with the modifying agent, and drying and curing the treated sheet to promote the formation of intra-fiber bonding. The resultant cellulosic based acquisition fiber may be utilized in an **acquisition layer** and/or an **absorbent core** of an **absorbent article**.

Classifications:

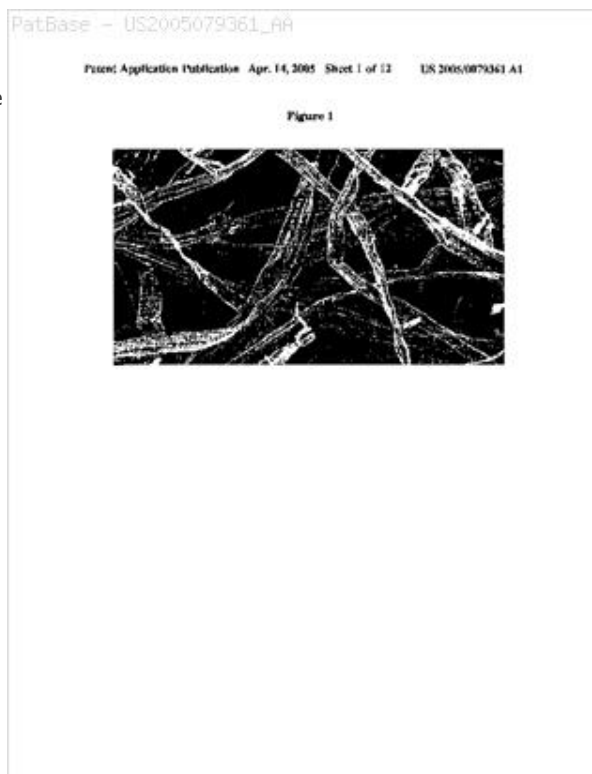
International (IPC 8-9): A61F13/15 A61L15/28 A61L15/60 B32B27/38 D04H1/40 D04H1/42 D06M15/00 D06M15/19 D06M15/55 D06M15/70 D21C3/02 D21C9/00 D21F11/00 D21H11/20 D21H21/10 D21H21/18 D21H21/22 D21H21/54 (Advanced/Invention); D06M101/06 (Advanced/Non-invention); A61F13/15 A61L15/16 B32B27/38 D04H1/40 D04H1/42 D06M15/00 D06M15/19 D06M15/37 D06M15/70 D21C3/00 D21C9/00 D21F11/00 D21H11/00 D21H21/00 D21H21/10 D21H21/14 D21H21/22 (Core/Invention); A61L (Subclass/Invention)

International (IPC 1-7): A61K8/18 A61L B32B27/38 D21F11/00

CPC: Y10T428/31511 A61F13/537 D21C9/005 D21H11/20

European: A61F13/537 D21C9/00B2D D21H11/20

US: 162/135 162/135S 162/158 162/158S 162/184 162/184S 428/413 428/413P 604/374 604/374S

**Family:**

Publication number	Publication date	Application number	Application date
CA2539500 AA	20060317	CA20042539500	20041013
CA2539500 C	20130820	CA20042539500	20041013
CN1930345 A	20070314	CN200480030154	20041013
EP1675556 A2	20060705	EP20040794758	20041013
EP1675556 A4	20100707	EP20040794758	20041013
JP2007515562 T2	20070614	JP20060535579T	20041013
US2005079361 AA	20050414	US20030683164	20031014
WO05037328 A2	20050428	WO2004US33488	20041013
WO05037328 A3	20060817	WO2004US33488	20041013

Priority:

US20030683164 20031014 WO2004US33488 20041013

Probable Assignee: RAYONIER PRODUCTS AND FINANCIAL SERVICES CO

Assignee(s): (std): CHMIELEWSKI HARRY J ; HAMED OTHMAN A ; RAYONIER PROD AND FNCL SERV CO

Assignee(s): RAYONIER PRODUCTS AND FINANCIA ; RAYONIER PRODUCTS AND FINANCIAL SERVICES CO ; RAYONIER PRODUCTS AND FINANCIAL SERVICES COMPANY ; RAYONIER TRS HOLDINGS INC

Inventor(s): (std): CHMIELEWSKI HARRY J ; HAMED OTHMAN A ; HAMED OTHMAN A CHMIELEWSKI HAR

Inventor(s): HAMED OTHMAN ; CHMIELEWSKI HARRY

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; HUNTON AND WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT

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: DIAPER WITH IMPROVED BODY FIT

Abstract:

Source: US2005222547A An **absorbent article** that has a thin, conformable **absorbent core** where the core has at least **two** layers, both of which are substantially free of cellulosic fibers is described. The first layer is intended to provide storage for the majority of acquired fluids and has an AAP of at least about 20 g/g and the second layer, which provides temporary capacity for the bulk of the acquired fluid and permanent storage for at least a portion thereof, comprises a second absorbent polymer material which has a Wet Permeability of at least about 400x10⁻⁷ (cm³ seconds)/g a ratio of Wet Permeability to SFC of at least about 1.5:1 with respect to the first absorbent polymer material.

Classifications:

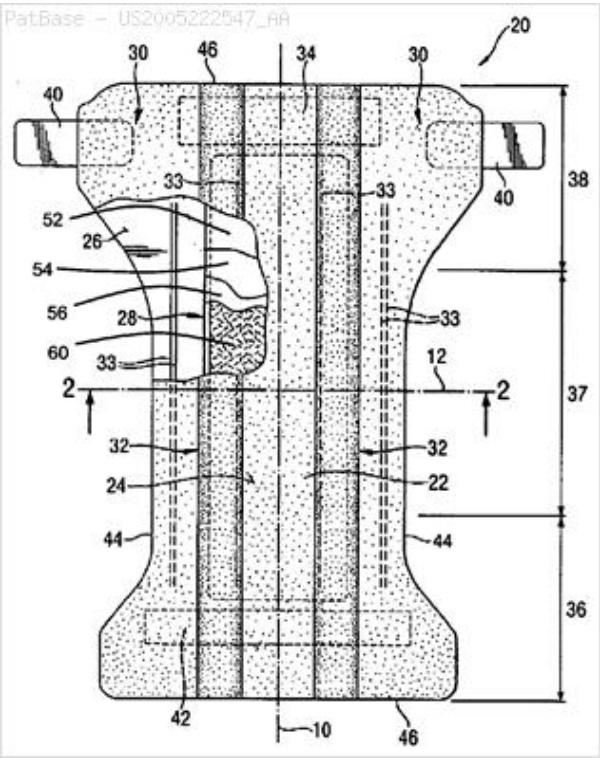
International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49 A61F13/53 A61L15/60 B01J20/26 (Advanced/Invention); A61F13/15 A61L15/16 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/49 A61F13/53 A61L15/60 B01J20/26

CPC: A61F13/15658 A61F13/534 A61F13/5376 A61F2013/15373 A61F2013/15422 A61F2013/530708 A61L15/60 A61F13/15634 A61F2013/53051 A61F2013/5307

European: A61F13/15M3C A61F13/15M3G A61F13/534 A61F13/537D A61L15/60 K61F13/15J8D1 K61F13/15J8H K61F13/53Q2 K61F13/53Q6 K61F13/53Q8

US: 604/367 604/368 604/368P 604/378 604/378S 604/381



Family:

Publication number	Publication date	Application number	Application date
AT444051 E	20091015	AT20050734201T	20050331
CN100569203 C	20091216	CN200580009636	20050331
CN1937978 A	20070328	CN200580009636	20050331
DE602005016905 D1	20091112	DE200560016905T	20050331
EP1729707 A1	20061213	EP20050734201	20050331
EP1729707 B1	20090930	EP20050734201	20050331
JP2005288265 A2	20051020	JP20040105118	20040331
JP2007531576 T2	20071108	JP20070506309T	20050331
JP4790702 B2	20111012	JP20070506309T	20050331
MXPA06011058 A1	20061231	MX2006PA11058	20060926
US2005222547 AA	20051006	US20050091255	20050328
US8735646 BB	20140527	US20050091255	20050328
WO05097025 A1	20051020	WO2005US11079	20050331
WO05097025 B1	20051124	WO2005US11079	20050331

Priority:

JP20040105118 20040331 US20040612926P 20040924 US20050091255 20050328
WO2005US11079 20050331 JP20070506309 20050331

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BERUDA HOLGER ; IKEUCHI HIROYUKI ; IWAMURA TAKU ; MACHIDA SAYAKA ; NAKAGAWA YASUE ; PROCTER AND GAMBLE ; SCHMIDT MATTIAS ; TORII KAZUSHI ; SAKAMOTO SHIGERU

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

Inventor(s): (std): BERUDA HOLGER ; HIROYUKI IKEUCHI ; HOLGER BERUDA ; IKEUCHI HIROYUKI ; IWAMURA TAKU ; KAZUSHI TORII ; MACHIDA SAYAKA ; MATTIAS SCHMIDT ; NAKAGAWA YASUE ; SAKAMOTO SHIGERU ; SCHMIDT MATTIAS ; SHIGERU SAKAMOTO ; TAKU IWAMURA ; TORII ICHIIJI ; TORII KAZUSHI ; YASUE NAKAGAWA

Agent(s): HEIDE UTE; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; ERIC T; ANDREW J; LAURA 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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: TREATMENT COMPOSITION FOR MAKING ACQUISITION FLUFF PULP IN SHEET FORM

Abstract:

Source: US2005247419A A treatment composition for producing acquisition fluff pulp, the treatment composition being a mixture of a cross-linking agent and a modifying agent. The cross-linking agent may be a polycarboxylic acid. The modifying agent may be a material that is water soluble non-anionic, non-polymeric material, and can function as debonder and plasticizer. A method of producing acquisition fluff pulp using the treatment composition involves treating a cellulosic base fiber with a treatment composition solution to impregnate the fiber with the treatment composition, and then drying and curing the impregnated fiber. The resultant acquisition fluff pulp may be utilized in an **acquisition layer** and/or an **absorbent core** of an **absorbent article** intended for body waste management.

Classifications:

International (IPC 8-9): A61F13/00 A61L15/60 B01J20/24 B01J20/28 D06M11/00 D06M11/05 D06M13/19 D06M13/192 D21C9/00 D21H11/20 D21H17/15 D21H21/18

D21H23/04 (Advanced/Invention);

A61F13/00 A61L15/16 B01J20/22 B01J20/28 D06M11/00 D06M13/00 D21C9/00 D21H11/00 D21H17/00 D21H21/14 D21H23/00 (Core/Invention)

International (IPC 1-7): B01J20/24 B01J20/28 D06M11/06 D06M13/192 D21H11/20

CPC: A61L15/60 D21C9/005

European: A61L15/60 D21C9/00B2D D21H11/20

US: 162/157.6 162/9 604/378 8/116.1

Family:

Publication number	Publication date	Application number	Application date
EP1745175 A2	20070124	EP20050740985	20050506
EP1745175 A4	20090708	EP20050740985	20050506
US2005247419 AA	20051110	US20040839715	20040506
WO05108669 A2	20051117	WO2005US15665	20050506
WO05108669 A3	20071004	WO2005US15665	20050506

Priority:

US20040839715 20040506 WO2005US15665 20050506

Probable Assignee: RAYONIER PRODUCTS AND FINANCIAL SERVICES CO

Assignee(s): (std): HAEUSSLER MICHAEL ; HAMED OTHMAN A ; RAYONIER PROD AND FNCL SERV CO ; RAYONIER TRS HOLDINGS INC

Assignee(s): RAYONIER PRODUCTS AND FINANCIAL SERVICES CO ; RAYONIER PRODUCTS AND FINANCIAL SERVICES COMPANY

Inventor(s): (std): HAEUSSLER MICHAEL ; HAMED OTHMAN A

Inventor(s): HAMED OTHMAN

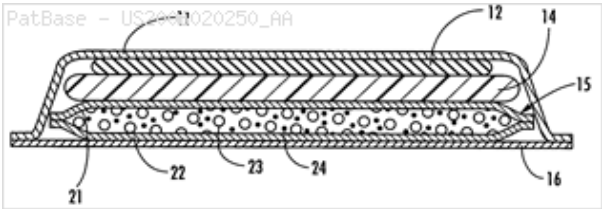
Agent(s): HUNTON AND WILLIAMS LLP, INTELLECTUAL PROPERTY DEPARTMENT; HUNTON AND WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT

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 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: ABSORBENT STRUCTURE

Abstract:
Source: US2006020250A An absorbent article is provided comprising a topsheet, a backsheet, and an absorbent core positioned between the topsheet and the backsheet, wherein the absorbent core comprises particles of superabsorbent polymer. An acquisition layer is positioned between the topsheet and the absorbent core for receiving and distributing fluid insults for absorption by the absorbent core. A temporary storage layer is positioned between the acquisition layer and the absorbent core, the temporary storage layer comprising a nonwoven fabric having a capacity to receive and temporarily hold the fluid insults in proximity to the absorbent core for a sufficient time for the fluid insults to be absorbed by the superabsorbent polymer in the absorbent core. In one advantageous embodiment, the acquisition layer has a calculated average pore size greater than 100 mum and the temporary storage layer has a calculated average pore size less than 100 mum.

Classifications:
International (IPC 8-9): A61F13/15 A61F13/537 (Advanced/Invention); A61F13/15 (Core/Invention)
International (IPC 1-7): A61F13/537
CPC: A61F13/53747 A61F2013/15495 A61F2013/15504 A61F2013/53721
European: A61F13/537C2 K61F13/15J8P1 K61F13/15J8P2 K61F13/537B5
US: 604/378 604/378P



Family:

Publication number	Publication date	Application number	Application date
EP1778154 A1	20070502	EP20050773507	20050721
MX2007000876 A1	20070312	MX20070000876	20050721
US2006020250 AA	20060126	US20050136796	20050525
WO6012481 A1	20060202	WO2005US25985	20050721

Priority:
US20040590840P 20040723 US20040606559P 20040902 WO2005US25985 20050721
US20050136796 20050525

Probable Assignee: BBA NONWOVENS SIMPSONVILLE INC

Assignee(s): (std): BAER SAMUEL CHARLES ; BBA NONWOVENS SIMPSONVILLE INC ; CHESTER STEPHEN O

Inventor(s): (std): BAER SAMUEL C ; BAER SAMUEL CHARLES ; CHESTER STEPHEN O

Inventor(s): BAER SAMUEL ; CHESTER STEPHEN

Agent(s): ALSTON AND BIRD LLP, BANK OF AMERICA PLAZA; ALSTON AND BIRD LLP BANK OF AMERICA PLAZA

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

Title: TREATMENT COMPOSITION FOR MAKING ACQUISITION FLUFF PULP IN SHEET FORM

Abstract:

Source: US2006184147A A treatment composition for making acquisition fluff pulp in sheet form, having a cross-linking agent and an anti-hydrogen-bonding agent. The cross-linking agent may be a polycarboxylic acid, aldehyde, urea-based derivatives or a mixture thereof. The anti-hydrogen-bonding agent may be a silicon polymer terminated with at least one quaternary amine functional group. A method of making acquisition fluff pulp using the treatment composition involves treating a cellulosic base fiber with a treatment composition solution to impregnate the fiber with the treatment composition, and then drying and curing the impregnated fiber. The resultant acquisition fluff pulp may be utilized in an **acquisition layer** and/or an **absorbent core** of an **absorbent article** intended for body waste management.

Classifications:

International (IPC 8-9): A61F13/15 C08G77/00 C08G77/26 C08L67/00 C08L83/00 D06M13/32

D06M13/322 (Advanced/Invention);

C08G77/00 (Advanced/Non-invention);

C08G77/00 D06M13/00 (Core/Invention)

CPC: Y10S8/01 C08L83/06 A61F13/15617 A61F13/5376 A61L15/60 C08K5/092 C08L83/08

D21C9/002 A61F2013/530007

European: A61F13/15M3 A61F13/537D A61L15/60 C08L83/06 C08L83/08 D21C9/00B2 K61F13/53L M08K5/092

US: 252/182.14 252/182.3 525/100 525/100S 525/33 525/33S 528/25 528/26 528/28 528/38

604/367 604/367P 8/188 8/DIG.1 81/88

Family:

Publication number	Publication date	Application number	Application date
US2006184147 AA	20060817	US20050058213	20050216
US7312297 BB	20071225	US20050058213	20050216
WO06088995 A2	20060824	WO2006US05417	20060216
WO06088995 A3	20070104	WO2006US05417	20060216

Priority:

US20050058213 20050216

Probable Assignee: RAYONIER PERFORMANCE FIBERS LLC

Assignee(s): (std): HAMED OTHMAN A ; RAYIONER TRS HOLDINGS INC ; RAYONIER TRS HOLDINGS INC

Assignee(s): RAYONIER PERFORMANCE FIBERS LLC

Inventor(s): (std): HAMED OTHMAN A

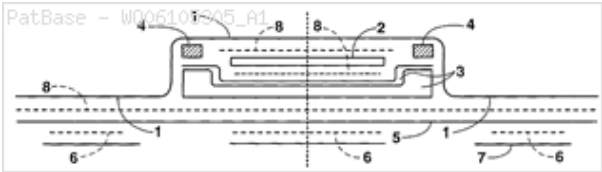
Inventor(s): HAMED OTHMAN

Agent(s): HUNTON AND WILLIAMS LLP, INTELLECTUAL PROPERTY DEPARTMENT; HUNTON AND WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT; HUNTON AND WILLIAMS LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC 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: **ABSORBENT ARTICLE** CONTAINING A DENSITY GRADIENT IN AT LEAST **TWO** DIRECTIONS, AND METHOD FOR THE MANUFACTURE THEREOF

Abstract:
An **absorbent article** includes a liquid permeable cover, a baffle material, and an absorbent structure disposed between the cover and baffle material. The absorbent structure includes a retention zone having a varying density gradient in at least **two** dimensions and a protection zone having a portion with a density less than a minimum density of the density gradient in the retention zone. The retention zone may be defined in a first region of the absorbent structure having a first basis weight and the protection zone may be defined in a second region of the absorbent structure having a second basis weight that is greater than the first basis weight.



Classifications:
International (IPC 8-9): A61F13/15 (Advanced/Invention);
A61F13/15 (Core/Invention)
International (IPC 1-7): A61F113/00 A61F13/15 A61F13/475
CPC: A61F13/532 A61F13/533
European: A61F13/532 A61F13/533

Family:

Publication number	Publication date	Application number	Application date
AR055896 AA	20070912	AR2006P101251	20060330
AU2006230380 AA	20061005	AU20060230380	20060330
BRPI0501157 A	20061128	BR2005PI01157	20050331
BRPI0501157 C1	20070221	BR2005PI01157	20050331
CR9362 A	20080303	CR20070009362	20070904
KR20070118238 A	20071214	KR20077022157	20070928
MX2007011970 A1	20071210	MX20070011970	20060330
PE14652006 A1	20070116	PE20060000352	20060330
WO06105305 A1	20061005	WO2006US11664	20060330

Priority:

BR2005PI01157 20050331 WO2006US11664 20060330

Probable Assignee: KIMBERLY CLARK KENKO IND E COM

Assignee(s): (std): BASTOS ROGERIO BANDEIRA ; BUIATTI CLAUDIO MALAGONI ; KIM DOOHONG ; KIMBERLY CLARK CO ; KIMBERLY CLARK CORP ; KIMBERLY CLARK KENKO IND E COM ; PURISIMA RAQUEL ; PERALTA JOEY N ; RUIZ JENNY VARGAS ; PEREIRA CASSIANO FREGAPANI ; KIMBERLY CLARK KENKO INDUSTRIA E COMERCIO LTDA ; KIMBERLY CLARK KENKO IND E COM LTDA

Assignee(s): KIMBERLY CLARK WORLDWIDE INC

Inventor(s): (std): BANDEIRA BASTOS ROGERIO ; BASTOS ROGERIO BANDEIRA ; BUIATTI CLAUDIO MALAGONI ; CASSIANO FREGAPANI PEREIRA ; CLAUDIO MALAGONI BUIATTI ; DOO HONG KIM ; DOOHONG KIM ; DOOHONG KIN ; FREGAPANI PEREIRA CASSIANO ; JENNY VARGAS RUIZ ; JOEY N PERALTA ; KIM DOO HONG ; KIM DOOHONG ; MALAGONI BUIATTI CLAUDIO ; PERALTA JOEY N ; PERALTA JOFY N ; PEREIRA CASSIANO FREGAPANI ; PURISIMA RAQUEL ; RAQUEL PURISIMA ; ROGERIO BANDEIRA BASTOS ; ROGERIO BANDERINA BASTOS ; RUIZ JENNY VARGAS ; VARGAS RUIZ JENNY

Inventor(s): JOFY N PERALTA

Agent(s): SPRUSON AND FERGUSON

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
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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: FLEXIBLE **ABSORBENT ARTICLE** WITH IMPROVED BODY FIT

Abstract:

Source: US2007027435A An **absorbent article** that has a thin, conformable **absorbent core** where the core has at least **two** layers, both of which includes (different) **superabsorbent** material and both being typically substantially free of cellulosic fibres is described. The **absorbent article** has a Circular Bend Flexibility of less than about 15 N and typically a an acquisition rate on the third gush of less than about 170 seconds and/or on the fourth gush of less than about 190 seconds.

Classifications:

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

A61F13/49 A61F13/505 A61F13/53 (Advanced/Invention);

A61F13/15 (Core/Invention)

CPC: A61F13/15203 A61F13/15658 A61F13/15699 A61F13/534 A61F13/5376 A61F2013/15357

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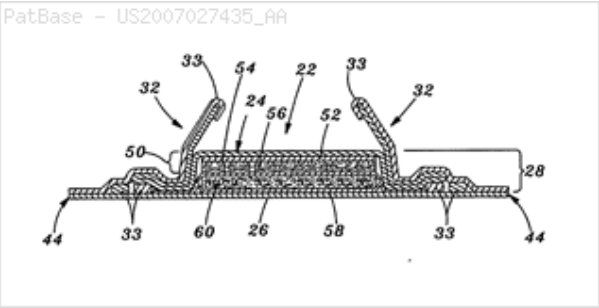
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US: 604/365 604/366 604/367 604/367S 604/368 604/368P 604/370 604/370S 604/374 604/378

604/378P 604/385.01 604/385.010S 604/385.101 604/385.14 604/385.140P 604/385.201



Family:

Publication number	Publication date	Application number	Application date
AT494871 E	20110115	AT20060774694T	20060726
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Priority:

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Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): BERUDA HOLGER ; NAKAGAWA YASUE ; PROCTER AND GAMBLE ; SCHMIDT MATTIAS

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

Inventor(s): (std): BERUDA HOLGER ; HOLGER BERUDA ; MATTIAS SCHMIDT ; NAKAGAWA YASUE ; SCHMIDT MATTIAS ; YASUE NAKAGAWA

Agent(s): DIMOCK STRATTON LLP; KREMER VERONIQUE MARIE JOSEPHINE; MCGREGOR JUDIT ESTER; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION WEST BLDG; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; LAURA L; THIBAUT; AMY M; ANDREW A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW 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 MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **ABSORBENT ARTICLE**

Abstract:

Source: US2007043330A An **absorbent article** for wearing about the lower torso of a wearer includes a topsheet, a backsheet joined to at least a portion of the topsheet, and an **absorbent core** disposed between the topsheet and the backsheet. The **absorbent core** includes a first layer and a second layer, wherein the first layer is disposed in fluid communication with the second layer. The first layer has a first shape and the second layer has a second shape. The first shape is different from the second shape. Each of the first layer and second layer comprise less than about 20 percent airlfelt.

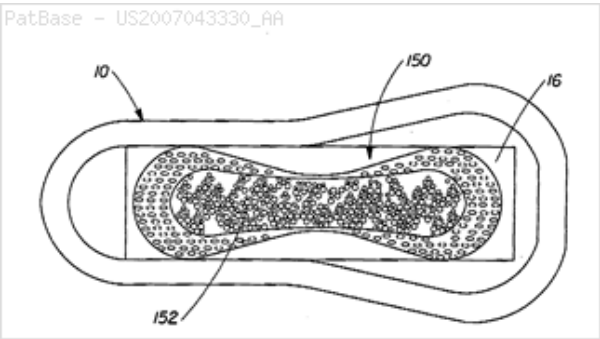
Classifications:

International (IPC 8-9): A61F13/15 A61F13/47 A61F13/49 A61F13/513 A61F13/53 A61F13/531 A61F13/534 A61F13/535 A61F13/537 A61F13/56 A61F13/84 A61L15/28 (Advanced/Invention); A61F13/15 (Core/Invention)

CPC: A61L15/28 A61F2013/5315 A61F13/535 A61F2013/1539 A61F13/53756 A61F13/5611 A61F13/4704 A61F13/51394 A61F2013/51026 A61F13/531 A61F13/84 A61F13/53713

European: A61F13/531 A61F13/535 K61F13/15J8D2

US: 604/366 604/367 604/367S 604/370 604/375 604/378 604/378P



Family:

Publication number	Publication date	Application number	Application date
CA2619574 AA	20080215	CA20062619574	20060818
CN101242795 A	20080813	CN200680030287	20060818
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EP1915118 A1	20080430	EP20060801962	20060818
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JP3171928 U	20111124	JP20110005329U	20110912
MX2008002254 A1	20080327	MX20080002254	20060818
US2007043330 AA	20070222	US20060506387	20060818
US2015094677 AA	20150402	US20140542714	20141117
US2015100035 AA	20150409	US20140546075	20141118
US2015105743 AA	20150416	US20140575417	20141218
US2016030260 AA	20160204	US20150882488	20151014
WO07022486 A1	20070222	WO2006US32537	20060818

Priority:

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BULLOCK STEVEN S ; BULLOCK STEVEN STUART ; HEKI YUKIO ; HOLLENBERG NIELS ; IWATA TOSHIYUKI ; KONDO MASAHIRO ; LANKHOF JOHN P ; LANKHOF JOHN PETER ; PROCTER AND GAMBLE

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

Inventor(s): (std): BULLOCK STEVEN S ; BULLOCK STEVEN STUART ; HEKI YUKIO ; HOLLENBERG NIELS ; IWATA TOSHIYUKI ; LANKHOF JOHN P ; LANKHOF JOHN PETER ; MASAHIRO KONDO ; NIELS HOLLENBERG ; PETER LANKHOF JOHN ; KONDO MASAHIRO ; STUART BULLOCK STEVEN ; TOSHIYUKI IWATA ; YUKIO HEKI

Inventor(s): LANKHOF JOHN ; BULLOCK STEVEN ; STEVEN STUART BULLOCK ; JOHN PETER LANKHOF

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP; KREMER VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION

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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **ABSORBENT ARTICLE** WITH A SLITTED **ABSORBENT CORE**

Abstract:

Source: US2009062760A The invention relates to slit **absorbent articles** and the use of slits in absorbent materials to provide improved liquid intake rate, flexibility and softness compared to the unmodified material. The absorbent material, including **superabsorbent** materials, are particularly useful as **absorbent cores** in disposable **absorbent articles** such as diapers, incontinent products, sanitary napkins and the like.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/45

A61F13/47 A61F13/49 A61F13/53 A61F13/534

A61F13/537 A61F13/538 B32B38/04 (Advanced/Invention);

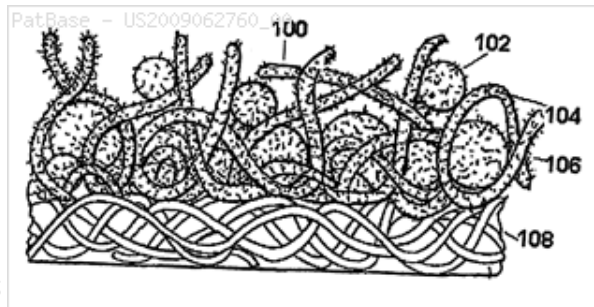
A61F13/15 B32B38/04 (Core/Invention)

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European: A61F13/15M6B A61F13/15M6C A61F13/47B A61F13/49A A61F13/534B A61F13/537B2 A61F13/537B4 A61F13/537C2 A61F13/538 B32B38/04 K61F13/15J8E K61F13/15J8P2

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US: 156/211 156/211S 156/268 156/268S 29/428 604/367 604/367P 604/378 604/378S 604/379 604/380 604/383 604/385.23 604/385.230S



Family:

Publication number	Publication date	Application number	Application date
CA2690503 AA	20090416	CA20082690503	20080612
CA2690503 C	20151027	CA20082690503	20080612
CN101795648 A	20100804	CN200880102735	20080612
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ES2524362 T3	20141205	ES20080762850T	20080612
MX2009013415 A1	20100209	MX20090013415	20080612
US2009062760 AA	20090305	US20080138112	20080612
US2015040367 AA	20150212	US20140336864	20140721
US8785715 BB	20140722	US20080138112	20080612
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Priority:

US20070943321P 20070612 US20080138112 20080612 WO2008IB01517 20080612
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Probable Assignee: DSG TECHNOLOGY HOLDINGS LTD

Assignee(s): (std): DSG TECHNOLOGY HOLDINGS LTD ; TSANG PATRICK KING YU ; WRIGHT ANDREW

Inventor(s): (std): ANDREW WRIGHT ; TSANG PATRICK KING YU ; WRIGHT ANDREW ; YU TSANG PATRICK KING

Inventor(s): PATRICK KING YU TSANG

Agent(s): NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; WOODS GEOFFREY CORLETT; PONS ANGEL; FULBRIGHT AND JAWORSKI LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH

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Title: ABSORBENT PRODUCTS HAVING IMPROVED PACKAGING EFFICIENCY

Abstract:

Source: US2011073513A An absorbent product is provided. The absorbent product includes a package having an interior space and an exterior surface; and a plurality of disposable absorbent articles disposed within the interior space of the package. Each of the disposable absorbent articles has a topsheet; a backsheet; a substantially cellulose free absorbent core located between the topsheet and the backsheet; a first waist region; a second waist region; a crotch region extending longitudinally between the first and second waist regions; and a fastening member extending laterally outward from the second waist region and adapted to releasably connect with a landing zone located in the first waist region. The absorbent product exhibits an In-Bag Stack Height of less about 80 mm as measured according to an In-Bag Stack Height Test.

Classifications:

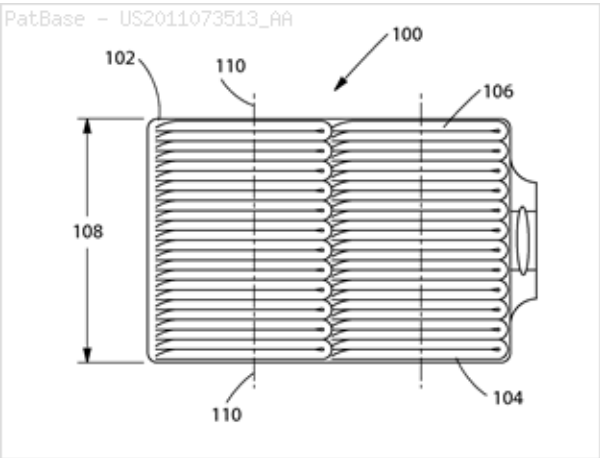
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International (IPC 1-7): A61F13/15

CPC: A61F13/5376 A61F13/51458 A61F13/5148 A61F13/15 A61F13/5323 B65D85/16 A61F13/5511 A61F13/15203 A61F13/55105 A61F2013/15357 A61F2013/15365 A61F13/5519 A61F2013/530131 A61F2013/530189 A61F2013/55195 A61F13/53 A61F13/55115

European: A61F13/53 A61F13/551A2 A61F13/551A4

US: 206/494 604/368 604/370 604/385.02



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Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): BERUDA HOLGER ; BLESSING HORST ; DU VAL DEAN LARRY ; DUVAL DEAN LARRY ; KRAUSE AXEL ; WEISMAN PAUL THOMAS ; HUNDORF HARALD HERMANN ; SCHMIDT MATTIAS ; STELZIG LUTZ ; DZIEZOK PETER ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO ; DZE PROKTER EHND GEHMBL KOMPANI

Inventor(s): (std): AXEL KRAUSE ; BERUDA HOLGER ; BLESSING HORST ; DSIEZOK PETER ; DU VAL DEAN LARRY ; DUVAL DEAN L ; DUVAL DEAN LARRY ; DZIEZOK PETER ; HERMANN HUNDORF HARALD ; HOLGER BERUDA ; HORST BLESSING ; HUNDORF HARALD HERMANN ; KRAUSE AXEL ; LARRY DUVAL DEAN ; LUTZ STELZIG ; MATTIAS SCHMIDT ; PAUL THOMAS WEISMAN ; PETER DZIEZOK ; SCHMIDT MATTIAS ; STELZIG LUTZ ; THOMAS WEISMAN PAUL ; WEISMAN PAUL ; WEISMAN PAUL THOMAS ; WEISMAN PAULTHOMAS

Inventor(s): PETER DSIEZOK ; HARALD HERMANN HUNDORF ; DEAN LARRY DUVAL

Agent(s): HEENAN BLAIKIE LLP; DIMOCK STRATTON LLP; HEIDE UTE; KREMER
VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; JOHN P; RICHARD L;
RICHARD; PROCTER AND GAMBLE CO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH
CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD
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ZA ZM ZW

Title: **ABSORBENT ARTICLE** HAVING FLUID FLOW CONTROL MEMBER

Abstract:

An **absorbent article**, the **absorbent article** being a personal hygiene article, comprising a liquid permeable top sheet, a liquid impermeable back sheet, and an **absorbent core** enclosed between the top sheet and the back sheet, and a fluid flow control member arranged between the top sheet and the backsheet, said fluid flow control member being of a nonwoven material comprising a three dimensional network of fibres, said fibres having a thickness of 200-700 micrometres, said nonwoven material having a strain of max 50 percent at 5 k Pa.

Classifications:

International (IPC 8-9): A61F13/49

A61F13/511 A61F13/537 B32B27/02 B32B5/02 B32B5/12 D04H3/00 (Advanced/Invention)

CPC: A61F13/537 B32B5/022 B32B5/12 B32B2555/00 B32B2555/02 A61F13/53713

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Family:

Publication number	Publication date	Application number	Application date
AU2011382526 AA	20130606	AU20110382526	20111201
AU2011382526 BB	20150423	AU20110382526	20111201
CA2856052 AA	20140515	CA20112856052	20111201
CN103957860 A	20140730	CN201180075200	20111201
CO7000765 A2	20140721	CO20140141070	20140701
EP2785302 A1	20141008	EP20110876788	20111201
EP2785302 A4	20150722	EP20110876788	20111201
JP2015500055 T2	20150105	JP20140544703T	20111201
MX2014006505 A1	20140710	MX2014006505	20111201
RU2576510 C1	20160310	RU20140126579	20111201
WO13081515 A1	20130606	WO2011SE51462	20111201

Priority:

WO2011SE51462 20111201 CO20140141070 20140701

Probable Assignee: SCA HYGIENE PROD AB

Assignee(s): (std): ANDERSSON PATRIK ; EHLERS KERSTIN K ; HANSON CHARLOTTA ; KITZER PETER P ; LALIBERTE THOMAS R ; VARTIAINEN KENT ; WOOD LEIGH E ; PRIOLEAU LORI ANN S ; WIEZELL BRITT MARIE ; PERSSON CHARLOTTE ; SCA HYGIENE PROD AB

Assignee(s): SCA HYGIENE PRODUCTS ABS-405 03GOTEBORGSE ; SCA HYGIENE PRODUCTS AB

Inventor(s): (std): ANDERSSON PATRIK ; HANSON CHARLOTTA ; EHLERS KERSTIN K ; KITZER PETER P ; LALIBERTE THOMAS R ; PERSSON CHARLOTTE ; PRIOLEAU LORI ANN S ; VARTIAINEN KENT ; WIEZELL BRITT MARIE ; WOOD LEIGH E

Inventor(s): WOOD LEIGH EUS ; WIEZELL BRITT MARIESE ; VARTIAINEN KENTSE ; PRIOLEAU LORI ANN SUS ; THOMAS R LALIBERTE ; PERSSON CHARLOTTESE ; PETER P KITZER ; LALIBERTE THOMAS RUS ; LEIGH E WOOD ; LORI ANN S PRIOLEAU ; PATRIK ANDERSSON ; KITZER PETER PNL ; EHLERS KERSTIN KDE ; HANSON CHARLOTTASE ; KENT VARTIAINEN ; KERSTIN K EHLERS ; ANDERSSON PATRIKSE ; BRITT MARIE WIEZELL ; CHARLOTTA HANSON ; CHARLOTTE PERSSON

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; RIDOUT AND MAYBEE LLP; LUZ CLEMENCIA DE PAEZ; BOERLIN MARIA; ALBIHNSZACCO AB ET AL

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

Title: **ABSORBENT ARTICLES** WITH IMPROVED CORE

Abstract:

Source: US2014005622A An **absorbent article** including a wearer-facing topsheet, a backsheet and an **absorbent core** disposed between the topsheet and the backsheet, characterized in that the **absorbent core** includes: a first absorbent layer comprising a first substrate, a layer of first **superabsorbent** polymer particles deposited on the first substrate, and a fibrous layer of thermoplastic adhesive material covering the layer of first **superabsorbent** polymer particles; a second absorbent layer, the second absorbent layer comprising a second substrate and a mixed layer deposited on the second substrate, the mixed layer comprising a mixture of second **superabsorbent** particles and cellulosic fibers, the first absorbent layer and the second absorbent layer being combined together such that at least a portion of the fibrous layer of thermoplastic adhesive material of the first absorbent layer contacts at least a portion of the mixed layer of the second absorbent layer, and wherein the first absorbent layer is placed closer to the topsheet than the second layer.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 A61F13/532 A61F13/534

A61F13/539 (Advanced/Invention)

CPC: A61F13/539 A61F13/537 A61F13/53708 A61F13/53747 A61F13/5376 A61F2013/53721 A61F2013/53734 A61F13/532 A61F13/534

US: 604/366

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Family:

Publication number	Publication date	Application number	Application date
EP2679209 A1	20140101	EP20120174117	20120628
EP2679209 B1	20150304	EP20120174117	20120628
JP2015519185 T2	20150709	JP20150517491T	20130621
US2014005622 AA	20140102	US20130929877	20130628
WO14004283 A1	20140103	WO2013US47003	20130621

Priority:

EP20120174117 20120628 WO2013US47003 20130621

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BERUDA HOLGER ; BIANCHI ERNESTO G ; BIANCHI ERNESTO GABRIEL ; CHATTERJEE ANIRUDDHA ; KLUGT WALTER PIETER HENDIRK LAURENTIUS VAN D ; KLUGT WALTER PIETER HENDRIK LAURENTIUS VAN D ; KREUZER CARSTEN HEINRICH ; ROSATI RODRIGO ; WIRTZ BIRGIT

Agent(s): LHUILLIER FLORENT CHARLES; NAGAI HIROSHI; GUFFEY TIMOTHY B

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

Title: **ABSORBENT ARTICLES** WITH IMPROVED CORE

Abstract:

Source: US2014005623A An **absorbent article** comprising a wearer-facing topsheet, a backsheet and an **absorbent core** disposed between the topsheet and the backsheet, characterized in that the **absorbent core** comprises: a first absorbent layer comprising a first substrate, a layer of first **superabsorbent** polymer particles deposited on the first substrate, and a fibrous layer of thermoplastic adhesive material covering the layer of first **superabsorbent** polymer particles; a second absorbent layer, the second absorbent layer comprising a second substrate and a mixed layer deposited on the second substrate, the mixed layer comprising a mixture of second **superabsorbent** particles and cellulosic fibers, the first absorbent layer and the second absorbent layer being combined together such that at least a portion of the fibrous layer of thermoplastic adhesive material of the first absorbent layer contacts at least a portion of the mixed layer of the second absorbent layer, and wherein the first absorbent layer is placed closer to the topsheet than the second layer.

Classifications:

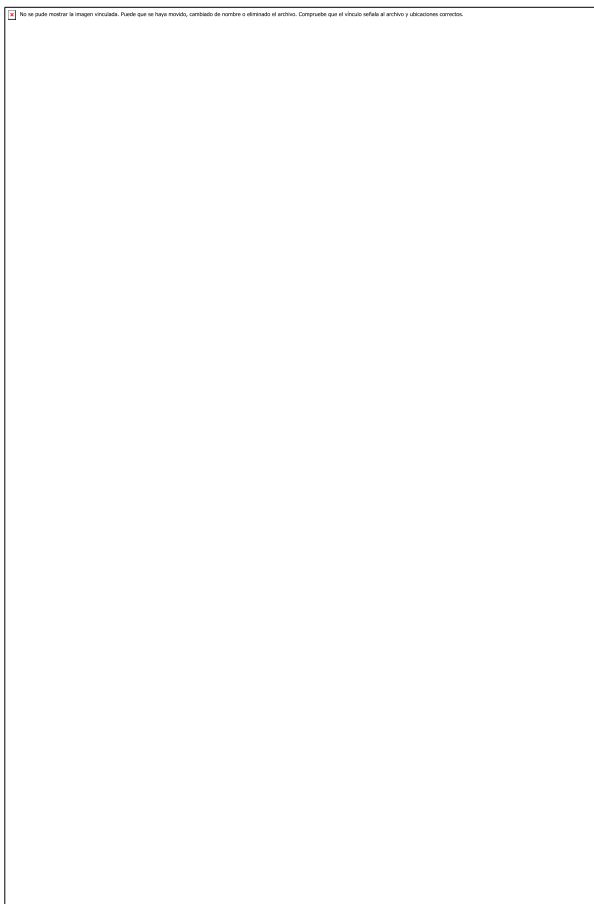
International (IPC 8-9): A61F13/534

A61F13/539 (Advanced/Invention)

CPC: A61F13/539 A61F13/534 A61F13/5323

A61F13/535

US: 604/366



Family:

Publication number	Publication date	Application number	Application date
EP2679210 A1	20140101	EP20120174130	20120628
EP2679210 B1	20150128	EP20120174130	20120628
US2014005623 AA	20140102	US20130929922	20130628
WO14004440 A1	20140103	WO2013US47510	20130625

Priority:

EP20120174130 20120628

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BERUDA HOLGER ; BIANCHI ERNESTO G ; BIANCHI ERNESTO GABRIEL ; CHATTERJEE ANIRUDDHA ; KLUGT WALTER PIETER HENDRIK LAURENTIUS VAN D ; KREUZER CARSTEN HEINRICH ; ROSATI RODRIGO ; WIRTZ BIRGIT

Agent(s): LHUILLIER FLORENT CHARLES; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG

CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB
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KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT
MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW
SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG
US UZ VC VN ZA ZM ZW

Title: **ABSORBENT ARTICLE** WITH PROFILED ACQUISITION-DISTRIBUTION SYSTEM

Abstract:

Source: US2014163504A An **absorbent article** (20) having an **absorbent core** comprising at least about 80 percent of **superabsorbent** polymers (SAP) by weight of its absorbent material. An acquisition-distribution system (ADS) (50) is at least partially disposed between the **absorbent core** and the topsheet. The ADS extends in the longitudinal direction of the **absorbent article** at least from a point A1 disposed at a distance D from the front edge to a point A2 disposed at a distance D from the back edge of the article, D being equal to 32 percent of the length L of the article. The ADS has a basis weight which may be at least 20 percent lower at the point A2 than at the point A1.



Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/537 A61F13/538

A61F13/539 (Advanced/Invention)

CPC: A61F13/15642 A61F13/1565 A61F2013/530547 A61F13/538 A61F13/539 A61F13/53717

US: 493/374 604/366 604/374 604/385.01 604/385.101

Family:

Publication number	Publication date	Application number	Application date
CA2894680 AA	20150610	CA20132894680	20131210
CL2015001582 A1	20151002	CL20150001582	20150609
CN104853707 A	20150819	CN201380063046	20131210
EP2740454 A1	20140611	EP20130191443	20131104
IN04986DN2015 A	20151218	IN2015DN04986	20150609
JP2016502871 T2	20160201	JP20150545925T	20131210
US2014163504 AA	20140612	US20130100083	20131209
WO14093323 A1	20140619	WO2013US74088	20131210

Priority:

EP20120196348 20121210 EP20130191443 20131104 WO2013US74088 20131210

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO ; SCHNEIDER MANUELA INES ; BAQUER MOLAS GEMMA ; BIANCHI ERNESTO GABRIEL ; LE NGUYEN HUYNH TRANG

Inventor(s): (std): BAQUER MOLAS GEMMA ; BIANCHI ERNESTO GABRIEL ; LE NGUYEN HUYNH TRANG ; SCHNEIDER MANUELA INES

Inventor(s): BAQUER MOLAS ; SCHNEIDER MANUELA ; BIANCHI ERNESTO

Agent(s): DIMOCK STRATTON LLP; LLOVET AHUMADA RAUL; LHUILLIER FLORENT CHARLES; NAGAI HIROSHI; GUFFEY TIMOTHY B

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

Abstract:

Classifications:

A61F13/49 A61F13/532 A61F13/534

A61F (Subclass/Invention)

A61F13/53436 A61F2013/53051

Publication number	Publication date	Application number	Application date
AU2014233680 AA	20140925	AU20140233680	20140313
CN105228568 A	20160106	CN201480027551	20140313
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IL241464 A0	20151130	IL20150241464	20150910
US2016051420 AA	20160225	US20140418033	20140313
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WO14151639 A4	20141113	WO2014US26148	20140313

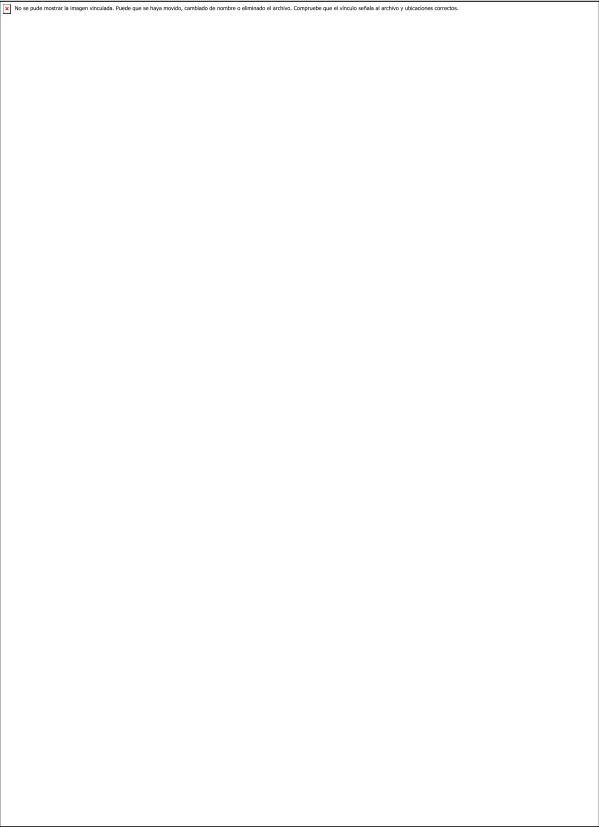
US20130791609P 20130315 WO2014US26148 20140313 US20140418033 20140313

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

Title: **ABSORBENT ARTICLE** AND **ABSORBENT CORE** FORMING CHANNELS WHEN WET

Abstract:
Source: US2014371701A An **absorbent article** for personal hygiene comprising a liquid permeable topsheet, a liquid impermeable backsheet, an **absorbent core** and a fibrous layer. The **absorbent core** comprises a core wrap and an absorbent material with **superabsorbent** polymers. The core wrap comprises a top side and a bottom side bonded to one other through one or more areas substantially free of absorbent material. The fibrous layer is at least partially bonded to one of the sides of the core wrap in the area substantially free of absorbent material. When the absorbent material swells, the core wrap forms one or more channels along the area substantially free of absorbent material. The formation of the channel in the **absorbent core** causes the formation of one or more corresponding ditches in the fibrous layer.

Classifications:
International (IPC 8-9): A61F13/532
A61F13/537 (Advanced/Invention)
CPC: A61F13/53743 A61F13/53747
A61F13/5323 A61F2013/53778
US: 604/378



Family:

Publication number	Publication date	Application number	Application date
CA2915216 AA	20151211	CA20142915216	20140605
CN105263455 A	20160120	CN201480031918	20140605
EP2813201 A1	20141217	EP20140167432	20140507
KR20160007618 A	20160120	KR20157035151	20140605
US2014371701 AA	20141218	US20140296483	20140605
WO14200794 A1	20141218	WO2014US41059	20140605

Priority:
EP20130172113 20130614 EP20140167432 20140507 WO2014US41059 20140605

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO ; RINNERT THORSTEN ; BIANCHI ERNESTO GABRIEL ; EHRSNERGER BRUNO JOHANNES ; HOLLENBERG DORIS

Inventor(s): (std): BIANCHI ERNESTO GABRIEL ; EHRSNERGER BRUNO JOHANNES ; HOLLENBERG DORIS ; RINNERT THORSTEN

Agent(s): DIMOCK STRATTON LLP; LHUILLIER FLORENT CHARLES; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB

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RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ
UA UG US UZ VC VN ZA ZM ZW

Title: MULTI-COMPONENT TOPSHEETS**Abstract:**

Source: US2015250660A A multi-component topsheet for an **absorbent article** includes a first discrete substrate, a second discrete substrate, and a third discrete substrate, wherein the second discrete substrate is disposed at least partially intermediate the first discrete substrate and the third discrete substrate, wherein the second discrete substrate is joined to the first discrete substrate and the third discrete substrate, wherein the topsheet has a single layer of substrate in about 80 percent or more of the total area of the topsheet and a dual layer of substrate in about 20 percent or less of the total area of the topsheet.

**Classifications:**

International (IPC 8-9): A61F13/511 A61F13/512 A61F13/513 (Advanced/Invention)

CPC: A61F13/5121 A61F13/51104 A61F13/5123 A61F2013/51178 A61F2013/51366 A61F13/5116 A61F13/51305 A61F13/512 A61F2013/51333

Family:

Publication number	Publication date	Application number	Application date
US2015250660 AA	20150910	US20150634945	20150302
US2015250661 AA	20150910	US20150634985	20150302
US2015250662 AA	20150910	US20150634928	20150302
WO15134359 A1	20150911	WO2015US18247	20150302
WO15134371 A1	20150911	WO2015US18277	20150302
WO15134375 A1	20150911	WO2015US18284	20150302

Priority:

US20140948858P 20140306	US20140948692P 20140306	US20150634945 20150302
US20150112337P 20150205	US20150634985 20150302	US20140948872P 20140306
US20150634928 20150302		

Probable Assignee: PROCTER AND GAMBLE

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

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): DOBRIN GEORGE CHRISTOPHER ; ENDRES JOEERG ; ENDRES JOERG ; ERDEM GUELTEKIN ; GALIE THERESA LYNN ; ISELE OLAF ERIK ; ISELE OLAF ERIK ALEXANDER ; PURDON MIKE ; PURDON MIKE P ; ROSATI RODRIGO ; TALLY AMY LYNN ; WEISMAN PAUL THOMAS ; YOUNG SHARON ANN

Agent(s): GUFFEY TIMOTHY B; KREBS JAY A ET AL; KREBS JAY A

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

Title: **ABSORBENT ARTICLES** HAVING SUBSTRATES HAVING FLOW CONTROL MATERIALS

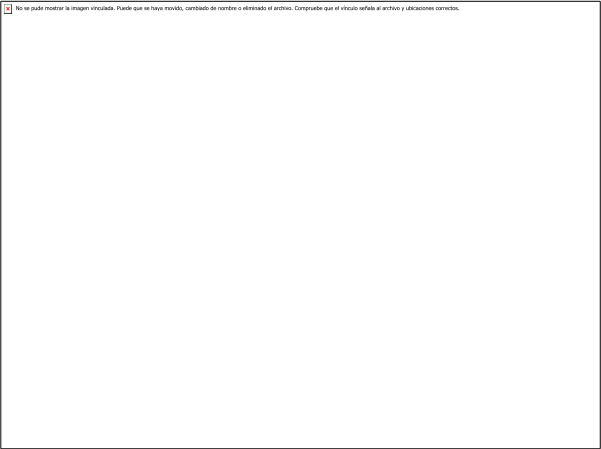
Abstract:

Source: US2015282997A The present disclosure is directed, in part, to an **absorbent article** comprising a liquid permeable topsheet, a liquid impermeable backsheet, and an **absorbent core** positioned at least partially intermediate the liquid permeable topsheet and the liquid impermeable backsheet. The liquid permeable topsheet may comprise a flow control material. The flow control material may form an at least mostly enclosed perimeter over at least a portion of the **absorbent core**. The flow control material may extend outwardly from the liquid permeable topsheet and/or may penetrate a portion of the liquid permeable topsheet.

Classifications:

International (IPC 8-9): A61F13/511
A61F13/512 A61F13/513 A61F13/535
A61F13/551 (Advanced/Invention)

CPC: A61F13/513 A61F13/5116 A61F2013/51355 A61F13/551 A61F13/535 A61F13/512
A61F13/5126 A61F13/51305 A61F13/51113 A61F2013/51061



Family:

Publication number	Publication date	Application number	Application date
US2015282997 AA	20151008	US20150656820	20150313
US2015283001 AA	20151008	US20150680394	20150407
US2015283003 AA	20151008	US20150680426	20150407
WO15156955 A1	20151015	WO2015US20500	20150313
WO15157248 A1	20151015	WO2015US24666	20150407
WO15157254 A1	20151015	WO2015US24673	20150407

Priority:

US20140976674P 20140408

US20150656820 20150313

US20150680394 20150407

US20150132736P 20150313

US20150132770P 20150313

US20150680426 20150407

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): ARIZTI BLANCA ; ARORA KELYN ANNE ; BICKING AMANDA MARGARET ; FEIST BARRY ROBERT ; GRENIER ADRIEN ; KNAPMEYER JAMES T ; MULLANE TIMOTHY IAN ; ORR JILL MARLENE ; RITTER MATTHEW S ; RODIC JENNIFER ; ROE DONALD CARROLL ; ROSATI RODRIGO ; STRUBE JOHN B ; TAPP ANN CECILIA ; WALTHER RACHAEL EDEN

Agent(s): KREBS JAY A

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

Title: PROCESS FOR MAKING AN **ABSORBENT ARTICLE** COMPRISING A TOPSHEET/**ACQUISITION LAYER** LAMINATE

Abstract:
Source: US2016074237A A process of making an **absorbent article** comprising the steps of providing a liquid permeable topsheet web extending substantially continuously in a machine direction, the topsheet web having a first and second surface, a liquid impermeable backsheet web extending substantially continuously in the machine direction and an **acquisition layer** having a first and second surface. The topsheet web and the **acquisition layer** comprise fibers. The process comprises the step of aligning the topsheet web and the **acquisition layer** in a face to face relationship such that the second surface of the topsheet web in in contact with the first surface of the **acquisition layer**. The process comprises the step of simultaneously mechanically deforming and combining the topsheet web together with the **acquisition layer** to provide a topsheet/**acquisition layer** laminate web having three-dimensional protrusions.

Classifications:
International (IPC 8-9): A61F13/15 A61F13/45 A61F13/51 A61F13/511 A61F13/512 A61F13/513 A61F13/53 A61F13/534 A61F13/535 A61F13/536 A61F13/537 A61F13/551 A61F13/62 B29C65/00 B32B38/04 B32B38/06 B32B5/26 D04H1/00 D04H1/44 D04H1/45 D04H1/492 D04H1/54 D04H1/70 D04H11/08 D04H13/00 (Advanced/Invention); A61F13/84 (Advanced/Non-invention)
CPC: A61F13/15699 A61F13/45 A61F13/15707 A61F13/15723 A61F13/51 A61F13/513 A61F13/51394 A61F13/53 A61F13/534 A61F13/55105 A61F2013/15715 A61F13/55115 A61F2013/15284 A61F2013/4587 A61F2013/5307 A61F2013/51023 A61F2013/53472 A61F2013/51007 A61F2013/51355 A61F2013/51002 A61F2013/15463 A61F13/51121 A61F13/15203 A61F13/551 A61F2013/15365 D04H13/001 A61F2013/51009 D10B2509/02 D10B2403/0111 A61F13/511 A61F2013/51147 A61F13/51108 A61F13/15577 A61F13/535 A61F13/55145 A61F2013/8497 B32B38/04 B32B2038/042 D04H1/44 D04H1/492 D04H1/45 D04H1/54 B29C66/21 B32B38/06 A61F13/537 A61F2013/530175 B32B5/26 D04H1/70 A61F13/5116 A61F13/5121 A61F13/536 A61F2013/421 A61F2013/427 A61F2013/4568 A61F2013/51026 A61F2013/51092 A61F2013/51377 A61F2013/530007 A61F2013/530131 A61F2013/530481 A61F2013/530489 A61F2013/530664 A61F2013/530715 A61F2013/5386 A61F2013/53908 A61F2013/5395 A61F2013/15292 A61F2013/51014 A61F2013/51186 D04H13/00 A61F13/51104 A61F13/512 D04H1/00 D04H11/08 A61F13/627 A61F13/15756 A61F2013/5349 A61F13/15731 A61F13/15804 A61F13/5123 A61F13/5125 A61F2013/51178

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Family:

Publication number	Publication date	Application number	Application date
US2016074237 AA	20160317	US20150844292	20150903
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Agent(s): KREBS JAY A

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