

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 14-141070- -5	FECHA: 2016-05-24 15:44:21
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 379 FASE NACIONAL INCLUIDO CAPITULO II
TRA: 11 PCT-PATENTE DE INVENCION CAPITULOS I Y II	FOLIOS: 9
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

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

Asunto: Radicación: 14-141070- -5
Trámite: 11
Evento: 379
Actuación: 519
Oficio: 6226
Folios: 9

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/SE2011/051462				
Fecha de Presentación Internacional	01/12/2011				

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° 14-141070-00000-0000	01/julio/2014
Reivindicaciones:	Rad. N° 14-141070-00004-0000	23/marzo/2016
Dibujos:	Rad. N° 14-141070-00000-0000	01/julio/2014

2. 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 18 (Páginas 8 a 10, radicado 14-141070-00004-0000).

Título de la solicitud: “Artículo absorbente con miembro de control de flujo de fluidos” (Página 2, radicado N° 14-141070-00004-0000).

El problema planteado en esta solicitud, consiste la necesidad de suministrar un artículo absorbente con mejores propiedades de control de flujo de tal modo que los líquidos corporales se distribuyan de manera efectiva aun cuando se ejerce presión sobre el

artículo.

Para resolver este problema técnico, la solicitud en estudio propone un artículo absorbente que comprende una lámina superior permeable a los líquidos, una lámina posterior impermeable a los líquidos y un núcleo absorbente contenido entre la lámina superior y la lámina posterior y un miembro de control de flujo de fluido dispuesto entre la lámina superior y la lámina posterior.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes A61F13/537; B32B27/02; D04H3/00.

3. De la solicitud de patente

Reivindicaciones (Art 30 D 486)

El capítulo reivindicatorio no es claro porque:

- En las reivindicaciones 1, 3, 5, 10, 11 a 18, las expresiones: *“lámina superior”, “lámina posterior”, “núcleo absorbente”, “miembro de control de flujo”, “material no tejido”, “red tridimensional de fibras”, “dichas fibras”, “fibras continuas”, “fibras termoplásticas”, “primera capa de núcleo absorbente”, “segunda capa de núcleo absorbente”, “abertura”, “consta de una sola capa de material no tejido”, “fibras absorbentes”, “material súper absorbente”, “capa portadora de soporte”, “material de película”, “puntos de unión unidos y rotos al azar en donde se cruzan las fibras”, “material”, “están unidas en los puntos donde se cruzan las fibras”,* 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.
- El término de las reivindicaciones 6 y 17, *“al menos”,* es impreciso, por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término preciso o un rango concreto.
- Las reivindicaciones 1, 2 y 6 al mencionar: *“dicho material no tejido que tiene una deformación de máximo 50% a 5 kPa”, “El artículo absorbente conforme a la reivindicación 1, en donde dicho material no tejido tiene una deformación de máximo 65% a 15 kPa, preferiblemente máximo 45% a 15 kPa”, “El artículo absorbente de cualquiera de las reivindicaciones 1-5, en donde dicho material no tejido tiene una porosidad de al menos 0,85 por a 15 kPa”,* sin especificar características esenciales del material tejido, se enfocan hacia un resultado, por lo cual no se puede aceptar, debido a que, equivaldría a definir el problema técnico a resolver, además el alcance de esta reivindicación incluiría todas las alternativas presentes o futuras que lleguen a ese resultado se sugiere remplazarlos por las características esenciales o eliminarlos para dar concisión a las reivindicaciones. Lo anterior se encuentra soportado con base en lo divulgado en la descripción donde se menciona que la tensión es la compresión relativa del material cuando la presión se eleva desde un nivel de presión de referencia a un nivel de presión final (Pág. 21, líneas 13 a 16), por tanto la deformación depende del material que se suministre
- Se le sugiere al solicitante que coloque al frente de la característica o del elemento, el número de referencia de las graficas o dibujos (), guardando correspondencia con el capítulo descriptivo y dicho capítulo reivindicatorio, con el objetivo de comprender mejor la invención al momento de hacer el análisis y distinguir los elementos de dicha invención.

4. Determinación del Estado de la Técnica

Expediente 14-141070- -5

2do Art. 45

Superintendencia de Industria y Comercio: Cra 13 No. 27- 00 pisos 1, 3, 4, 5, 6, 7 y 10 - PBX: (571) 5870000
E-mail: contactenos@sic.gov.co - Bogotá D.C., Colombia.

Señor ciudadano la entidad le ofrece los siguientes canales para hacer seguimiento a su solicitud así:
Página web: www.sic.gov.co
Centro de atención telefónica en Bogotá: 5920400

Línea gratuita a nivel nacional: 018000 910165
Kiosco Informático Centro Comercial Gran Estación en Bogotá

El estado de la técnica se determinó con base en la fecha de solicitud internacional: diciembre 01 de 2011, y se encontraron los siguientes documentos que anticipan el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación
D1	WO 97/47263	“Absorbent article with acquisition zone”	18/12/1997
D3	WO 2006/099113	“Insitube-formed absorbent core structures”	21/09/2006

El documento D1¹ divulga un artículo absorbente desechable tal como una compresa de incontinencia que es a la vez es cómoda y adecuada para absorber y contener grandes volúmenes de líquidos corporales rápidamente sin fugas, especialmente un chorro subsiguiente de líquido; el artículo absorbente tiene un par de regiones en los extremos y una región central dispuesta entre las regiones extremas, la región central incluye un par de porciones laterales longitudinales espaciadas entre sí y una parte central dispuesta entre las porciones laterales longitudinales; el artículo absorbente incluye una lámina superior permeable a los líquidos, una lámina posterior impermeable a los líquidos unidos a la lámina superior, un núcleo absorbente situado entre la lámina superior y la lámina posterior y un componente de adquisición posicionado entre la lámina superior y el núcleo absorbente (Resumen).

El documento D2² divulga una estructura de núcleo absorbente que tiene al menos una región de adquisición, al menos una región de distribución y al menos una región de almacenamiento; donde la región de adquisición se construye a partir de un material fibroso y tiene una densidad relativamente baja de aproximadamente 0,018 g/cc a aproximadamente 0,20 g/cc, la zona de distribución se construye a partir del material fibroso y está consolidando para tener una densidad relativamente medio de aproximadamente 0,024 g/cc a aproximadamente 0,45 g/cc La región de distribución en comunicación de fluido con la región de adquisición (Resumen).

5. Examen de Patentabilidad (Art 14 D486)

Nivel inventivo (Art18 D486)

La reivindicación 1 consisten en: *“Un artículo absorbente que es un artículo de higiene personal, tal y como protectores para incontinencia, toallas higiénicas, protectores diarios, pañales con cintas sujetadoras, pañales tipo calzón o pañales con cinturón, que comprende (...)”* (Ver Pág. 8 del Radicado N° 14-141070-00004-0000).

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

Características esenciales	D1	D3
Un artículo absorbente (...) que comprende	El artículo absorbente comprende (Reivindicación 1).	Estructuras de núcleo absorbentes para artículos absorbentes desechables. Más específicamente, la presente invención se refiere a estructuras de núcleo absorbentes construidos de materiales fibrosos (Pág. 2, líneas 4 a 6).

1[http://worldwide.espacenet.com/publicationDetails/biblio?
CC=WO&NR=9747263A1&KC=A1&FT=D&ND=&date=19971218&DB=&locale=en_EP](http://worldwide.espacenet.com/publicationDetails/biblio?CC=WO&NR=9747263A1&KC=A1&FT=D&ND=&date=19971218&DB=&locale=en_EP)
2[http://worldwide.espacenet.com/publicationDetails/biblio?
CC=WO&NR=2006099113A1&KC=A1&FT=D&ND=&date=20060921&DB=&locale=en_EP](http://worldwide.espacenet.com/publicationDetails/biblio?CC=WO&NR=2006099113A1&KC=A1&FT=D&ND=&date=20060921&DB=&locale=en_EP)

una lámina superior permeable a los líquidos	Una lámina superior permeable a los líquidos (Reivindicación 1).	No menciona
una lámina posterior impermeable a los líquidos	Una lámina posterior impermeable a los líquidos (Reivindicación 1).	No menciona
y un núcleo absorbente contenido entre la lámina superior y la lámina posterior	Un núcleo absorbente situado entre dicha lámina superior y dicha lámina posterior (Reivindicación 1).	Una estructura de núcleo absorbente que tiene al menos una región de adquisición, al menos una región de distribución, y al menos una región de almacenamiento (Pág. 3, líneas 13 a 15).
y un miembro de control de flujo de fluido dispuesto entre la lámina superior y la lámina posterior	Caracterizado por un componente de adquisición situada entre dicha lámina superior y dicha núcleo absorbente (Reivindicación 1).	No menciona
en donde dicho miembro de control de flujo de fluido es de un material no tejido que contiene una red tridimensional de fibras	Los componentes de adquisición pueden estar compuestos de varios materiales diferentes, incluyendo bandas no tejidas o tejidas de fibras sintéticas incluyendo poliéster, polipropileno, o una capa de polietileno de una tela fundida por soplado, una tela laminar unido por cardado, una banda tendida al aire unidas térmicamente u otro material adecuado (Pág. 15, líneas 17 a 22). El componente de adquisición tiene un volumen vacío total. La porción del componente de adquisición con la región central proporciona al menos aproximadamente 50% del total volumen de huecos del artículo absorbente (Pág. 6, líneas 30 a 33).	La región de distribución que se construye a partir del material fibroso, la región de distribución está consolidando para tener una densidad relativamente medio de aproximadamente 0,024 g/cc a aproximadamente 0,45 g/cc (Pág. 4, líneas 11 a 14). La estructura de núcleo puede estar diseñado para tener sus regiones (es decir, regiones de adquisición de (4010), las regiones de distribución 4020 y regiones de almacenamiento (4030)) variar en su colocación tridimensional tal como se representa por el núcleo absorbente (4000) (Pág. 15, líneas 2 a 4).
dichas fibras que tienen un espesor de 200-700 µm	No menciona	La "capa de distribución" o "región de distribución" contiene un material fibroso que tiene una densidad relativamente medio de aproximadamente 0,024 g/cc a aproximadamente 0,45 g/cc y un calibre relativamente medio de aproximadamente 0,34 mm a aproximadamente 0,625 mm (Pág. 10, líneas 15 a 17).

El documento D1 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 1, porque divulga un artículo absorbente que comprende una lámina superior permeable a los líquidos, una lámina posterior impermeable a los líquidos unida a

dicha lámina superior, una núcleo absorbente situado entre dicha lámina superior y dicha lámina posterior y un componente de adquisición situada entre dicha lámina superior y dicho núcleo absorbente (Reivindicación 1).

La diferencia entre la invención definida en la reivindicación 1 y el artículo absorbente divulgado en D1, consiste en que este último no menciona que las fibras del miembro de control de flujo de fluido tengan un espesor de 200-700 μm .

No se evidencia un efecto técnico al definir el espesor de las fibras entre 200 a 700 μm , puesto que, la solución de la presente solicitud ya fue divulgada en D1 al mencionar un artículo absorbente que comprende una lámina superior permeable a los líquidos, una lámina posterior impermeable a los líquidos unida a dicha lámina superior, una núcleo absorbente situado entre dicha lámina superior y dicha lámina posterior, caracterizado por un componente de adquisición situado entre dicha lámina superior y dicha núcleo absorbente, que permite aceptar y contener una gran cantidad de líquidos corporales sin fugas, además presenta una alta tasa de consumo de líquido y una eficiente distribución de los fluidos corporales sobre el núcleo, permitiendo una mayor comodidad para el usuario tanto en el estado húmedo como en el estado seco.

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: “¿Como obtener un artículo absorbente de forma alternativa al divulgado en D1?”.

Sin embargo, ya era conocido en el estado de la técnica, la aplicación de fibras de espesores entre 200 a 700 μm en miembros de control de flujo de fluido, puesto que, en el documento D3 menciona una estructura de núcleo absorbente que tiene al menos una región de adquisición, al menos una región de distribución, y al menos una región de almacenamiento (Pág. 3, líneas 13 y 14), donde la "capa de distribución" o "región de distribución" contiene un material fibroso que tiene una densidad relativamente medio de aproximadamente 0,024 g/cc a aproximadamente 0,45 g/cc y un calibre relativamente medio de aproximadamente 0,34 mm a aproximadamente 0,625 mm (Pág. 10, líneas 15 a 17), permitiendo una comunicación fluida entre capas en tres dimensiones, y por lo tanto una eficiente gestión de fluidos (Pág. 14, líneas 31 y 32).

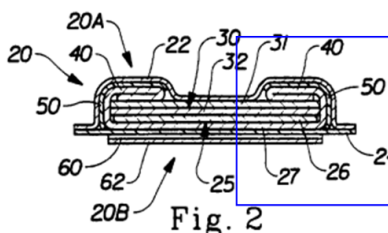
En consecuencia, la persona del oficio normalmente versada en la materia enfrentada al problema técnico obtener un artículo absorbente de forma alternativa al divulgado en D1, estaría motivada a incluir fibras con espesores entre 0.34 mm a 0.625 mm en el miembro de control de fluidos como es divulgado en D3, en el artículo absorbente de D1, llegando así al objeto de la reivindicación 1, por lo cual se considera obvia.

Asimismo, el documento D1 divulga las características de la reivindicación dependientes así:

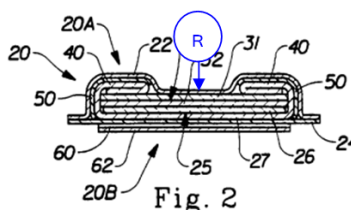
- La reivindicación 3. Los componentes de adquisición pueden estar compuestos de varios materiales diferentes, incluyendo bandas no tejidas o tejidas de fibras sintéticas incluyendo poliéster, polipropileno, o una capa de polietileno de una tela fundida por soplado, una tela laminar unido por cardado, una banda tendida al aire unidas térmicamente, u otro material adecuado. Alternativamente, la capa no tejida puede ser una sola capa de material tal como, por ejemplo, una banda unida por hilado o una tela fundida por soplado. La banda no tejida puede ser también un compuesto formado por una mezcla de dos o más fibras diferentes o una mezcla de fibras y partículas. Tales mezclas pueden formarse por la adición de fibras y / o partículas a la corriente de gas en el que se llevan a las fibras de soplado en fusión o fibras de unión por hilatura de manera que un íntimo enredado de fibras y otros materiales (Pág. 15, líneas 17 a 27).
- La reivindicación 5. Los componentes de adquisición pueden estar compuestos de varios materiales diferentes, incluyendo bandas no tejidas o tejidas de fibras

sintéticas incluyendo poliéster, polipropileno, o una capa de polietileno (Pág. 0015, líneas 17 a 20).

- La reivindicación 7. El peso base del componente de adquisición está preferiblemente dentro del intervalo de aproximadamente 10 g/m² a aproximadamente 300 g/m² (Pág. 0017, líneas 3 a 5).
- La reivindicación 8. El componente de adquisición fibrosa tiene un espesor de aproximadamente 1 mm a aproximadamente 10 mm, más preferiblemente de aproximadamente 1,5 mm a aproximadamente 6 mm, todavía más preferiblemente de aproximadamente 1,7 mm a aproximadamente 4,5 mm, y más preferiblemente de aproximadamente 2 mm a aproximadamente 4 mm, medido bajo una presión de 2 kPa (Pág. 0017, líneas 6 a 9).
- La reivindicación 10. Caracterizado por un componente de adquisición situada entre dicha lámina superior y dicho núcleo absorbente (Reivindicación 1).
- La reivindicación 11. Un componente de adquisición (30) situada entre la lámina superior (22) y el núcleo absorbente (25) y un par de miembros absorbentes elásticos (40) dispuestos uno a cada lado de la almohadilla de incontinencia (20) en una relación espaciada entre sí entre la lámina superior (22) y el componente de adquisición (30) (Pág. 0008, líneas 24 a 27); Como se observa en la figura 2, la capa de adquisición (30), esta ubicada entre el cuerpo absorbente (40) y el núcleo absorbente (25).



- La reivindicación 12. En la figura 2 se observa que el cuerpo absorbente (40) se encuentra entre la lámina superior (22) y el núcleo absorbente (25). Adicionalmente se observa la abertura (R) que se extiende por el centro de la lámina superior (22).



- La reivindicación 13. El componente de adquisición (30) comprende dos capas de adquisición (31) y (32), respectivamente. Alternativamente, el componente de adquisición (30) puede comprender una única capa o múltiples capas, por ejemplo, tres, cuatro, cinco o más capas (Pág. 0015, líneas 12 a 15).
- La reivindicación 14. Los componentes de adquisición pueden estar compuestos de varios materiales diferentes, incluyendo bandas no tejidas o tejidas de fibras sintéticas incluyendo poliéster, polipropileno, o una capa de polietileno de una banda de soplado en fusión, una banda cardada unida, una banda tendida al aire unida térmicamente, u otro material adecuado. Alternativamente, la capa no tejida puede ser una sola capa de material tal como, por ejemplo, una tela unida por hilado o una tela fundida por soplado (Pág. 15, líneas 17 a 20).

- La reivindicación 15. Para más ayuda en la separación del núcleo absorbente (25) de la componente de adquisición (30), la capa superior (26) del núcleo absorbente (25), que puede comprender un material relativamente rígido, está provisto preferiblemente de un canal gofrado, pliegue o pliegue. Por ejemplo, la capa absorbente (26) se muestra en la Figura 7 está provisto de un canal gofrado (85) que se extiende a lo largo de la línea central longitudinal (L) (Pág. 25, líneas 34 a 36; Pág. 26, líneas 1 a 3).
- La reivindicación 16 y 18. Tales mezclas se pueden formar mediante la adición de fibras y/o partículas a la corriente de gas en el que se llevan a las fibras de soplado en fusión o fibras de unión por hilatura de manera que un íntimo enredado de fibras y otros materiales, por ejemplo, pulpa de madera, fibras cortadas y las partículas correspondientes a la colección de las fibras. (Pág. 0016, líneas 3 a 9)

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

- La reivindicación 4 y 9. La "capa de distribución" o "región de distribución" contiene un material fibroso que tiene una densidad relativamente medio de aproximadamente 0,024 g/cc a aproximadamente 0,45 g/cc y un calibre relativamente medio de aproximadamente 0,34 mm a aproximadamente 0,625 mm (Pág. 10, líneas 15 a 17).

De igual manera, las reivindicaciones dependientes 2 y 6 no mencionan características técnicas tangibles adicionales que puedan brindarle nivel inventivo al objeto de la reivindicación 1, puesto que estas se encuentran redactadas en términos de resultados a alcanzar, efectos o ventajas y usos.

6. Conclusión

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

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D1	WO 98/46818	1 a 3, 5 a 8, 10 a 16, 18	Nivel inventivo
D2	WO 2006/099113	1, 4, 9	Nivel inventivo

8. Respuesta a los argumentos del señor solicitante

Al respecto del argumento de la solicitante, en la cual menciona que *“con respecto a las objeción del examinador en contra de las reivindicaciones 1 y 18 por incluir términos generales, respetuosamente manifestamos nuestro desacuerdo debido a que los términos objetados 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. Adicionalmente, dichos términos se encuentra definidos de forma clara y precisa en la descripción de la presente solicitud. En consecuencia, el alcance del pliego reivindicatorio se encuentra claramente definido”*; se aclara que esta Oficina considera que aunque son empleados en el campo técnico, son generales y por tanto no especifican claramente la invención sugiriendo de forma imprecisa que la protección se extiende a otras posibles variaciones o modificaciones, por lo cual, no son patentables. Se sugiere especificar la invención con términos precisos.

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 para no presentar una amplia gama de posibilidades y variaciones que no son aceptados.

Asimismo, respecto a lo mencionado por el solicitante en cuanto a que: “el término ‘al menos’ se mantiene en el pliego reivindicatorio dado que éste especifica de forma clara la invención y eliminarlo constituiría una reducción sustancial e innecesaria a la materia reclamada. Teniendo en cuenta todo lo anterior, la objeción formulada a este respecto se debe tener por superada”, esta Oficina considera que dichas expresiones no limitan la invención, por cuanto no presentan claramente un rango superior y uno inferior [3], por tanto, Contrario a lo mencionado por la solicitante, dicho termino no permite delimitar correctamente el alcance de la invención.

De la misma manera las expresiones: “dicho material no tejido que tiene una deformación de máximo 50% a 5 kPa”, “El artículo absorbente conforme a la reivindicación 1, en donde dicho material no tejido tiene una deformación de máximo 65% a 15 kPa, preferiblemente máximo 45% a 15 kPa”, “El artículo absorbente de cualquiera de las reivindicaciones 1-5, en donde dicho material no tejido tiene una porosidad de al menos 0,85 por a 15 kPa”, esta representadas como una ventaja o resultados a alcanzar, lo cual no es permitido, puesto que la citada reivindicación incluiría no sólo la solución propuesta por el solicitante, sino todas las alternativas presentes o futuras que lleguen a ese resultado, por lo cual, no le puede dar novedad a la invención.

Lo anterior se encuentra sustentado en lo que divulga la descripción en lo que respecta a la tensión, la cual es la compresión relativa del material cuando la presión se eleva desde un nivel de presión de referencia a un nivel de presión final (Pág. 21, líneas 13 a 16), por tanto la deformación depende del material que se suministre; por otro lado la porosidad depende del peso base del material, el espesor del material con carga real y de la densidad de la fibra (Pág. 19, líneas 4 a 6), por tal motivo dichos argumentos no resultan persuasivos para desvirtuar el presente análisis de patentabilidad y las características no otorgan nivel inventivo a la invención.

³ **Rango:** m. Estad. Amplitud de la variación de un fenómeno entre un límite menor y uno mayor claramente especificados; en línea: <http://dle.rae.es/?id=V7xwLhM>

Por otra parte, con relación al argumento de la recurrente en el cual menciona que “*el espesor de la fibra contribuye a proporcionar un material con el cual es posible obtener suficiente resistencia a la compresión, esto es, una deformación lo suficientemente baja. Esta deformación baja asegura que las propiedades de flujo del fluido en el miembro de control de flujo de fluido sean mantenidas durante el uso del producto absorbente. El efecto es de este modo que los fluidos corporales sean efectivamente distribuidos a través del miembro de control de flujo de fluido hasta el núcleo absorbente, dado que se garantiza que siempre haya un volumen libre en el miembro de control de flujo de fluido cuando se ejerza presión sobre el artículo. De este modo mejorando las propiedades de adquisición de líquido*”, teniendo en cuenta lo anterior, es importante precisar que esta ventaja no esta sustentada con alguna prueba o ensayo de carácter técnico que demuestre dicha ventaja, por lo cual no otorga nivel inventivo a la invención.

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 2016-05-31

Elaboró: Lady Paola Cortes

Revisó: Olga Ximena Benavides Salazar

Lady Cortes

Search history

Search 1: PN=(WO2013081515) (Results 1)

Search 2: [SP]: claims 1. 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, characterised in that said fluid flow control member is of a nonwoven material comprising a three dimensional network of fibres, said fibres having a thickness of 200-700 micro ?t?, said nonwoven material having a strain of max 50 percent at 5 kpa. 2. the absorbent article of claim 1, wherein said nonwoven material having a strain of max 65 percent at 15 kpa, preferably max 45 percent at 15 kpa. 3. the absorbent article according to claim 1 or 2, wherein said nonwoven material comprises substantially continuous fibres. 4. the absorbent article of any one of claims 1 -3, wherein the fibres of said nonwoven material have a thickness of 250-650 micro ?t?, preferably 300-600 micro ?t?. 5. the absorbent article of any one of claims 1 -4, wherein the fibres of said nonwoven material are thermoplastic fibres. 6. the absorbent article of any one of claims 1 -5, wherein said nonwoven material has a porosity of at least 0.85 below 15 kpa. 7. the absorbent article of any one of claims 1 -6, wherein said nonwoven material has a basis weight of 200-900 g/m2, preferably 200-700 g/m2. 8. the absorbent article of any one of claims 1 -7, wherein said fluid flow control member has a thickness of 4-20 mm, preferably 5-10 mm at 0.2 kpa, preferably 2-7 mm at 15 kpa. 9. the absorbent article of any one of claims 1 -8, wherein said fluid flow control member has a density of 0.01 -0.10 g/cm3, preferably 0.03-0.10 g/cm3 at 0.2 kpa. 10. the absorbent article of any one of claims 1 -9, wherein the fluid flow control member is located between the topsheet and the absorbent core. 11. the absorbent article of any one of claims 1 -10, wherein the absorbent core comprises a first absorbent core layer and a second absorbent core layer, and wherein said fluid flow control member is located between said first and second absorbent core layers. 12. the absorbent article of claim 11, wherein said first absorbent core layer is arranged between the top sheet and the second absorbent core layer, said first absorbent core layer having an opening extending through the layer. 13. the absorbent article of any one of claims 1 -12, wherein said fluid flow control member consists of a single nonwoven material layer. 14. the absorbent article of any one of claims 1 -13, wherein said fluid flow control member is substantially free from absorbing fibres and superabsorbent material. 15. the absorbent article of any one of claims 1 -14, wherein said fluid flow control member includes a supporting carrier layer, preferably of a nonwoven material or a film material. 16. the absorbent article of any one of claims 1 -15, wherein said fluid flow control member is made of a nonwoven material having bonded and random broken bonding points where fibres intersect. 17. the absorbent article of claim 16, wherein the material comprises at least 1, 2, or 3 broken bonding points per 1 cm3. 18. the absorbent article of any one of claims 1 -15, wherein said fluid flow control member is made of a nonwoven material in which the fibres are bonded at points where fibres intersect. (Results 23)

Search 3: TAC=(absorbent article) (Results 10445)

Search 4: TAC=(acquisition layer) (Results 559)

Search 5: TAC=(3 and 4) (Results 267)

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

Search 7: TAC=(5 and 6) (Results 80)

Search 8: TAC=(nonwoven material) (Results 8222)

Search 9: TAC=(5 and 8) (Results 71)

Search 10: TAC=(6 and 9) (Results 29)

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

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European: A61F13/00 A61F13/535 A61F13/537B4 A61F13/537C2 A61F13/537C4 A61L15/18 A61L15/42 A61L15/60 D01H13/30 K61F13/00L1R K61F13/15H11 K61F13/15J8 K61F13/15J8D K61F13/15J8P8 K61F13/15M11 K61F13/45C4 K61F13/49 K61F13/49D2 K61F13/49D2H3 K61F13/49D2H4 K61F13/49H5 K61F13/51 K61F13/511D2 K61F13/511D6 K61F13/512 K61F13/514A4 K61F13/514A4A K61F13/514C4B K61F13/51M6C K61F13/533 K61F13/534C K61F13/537H K61F13/53L K61F13/53M K61F13/53M4E K61F13/53P K61F13/53Q1A K61F13/53Q2 K61F13/53Q2A K61F13/53Q2C K61F13/53Q2D K61F13/53Q2E K61F13/53Q3 K61F13/53Q4A1 K61F13/53Q5 K61F13/53Q6 K61F13/53Q8 K61F13/53Q8B3 K61F13/58F K61F13/84E K61F13/84E1

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Priority:

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US19910684633	19910412	US19910685255	19910412	US19910684712	19910412
WO1992US02905	19920409	US19930149173	19931108	US19930080993	19930622

Probable Assignee: PROCTER AND GAMBLE CO

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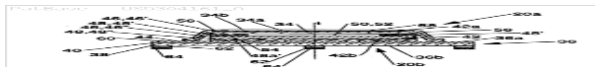
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; SIM AND MCBURNEY

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: Absorbent article having rapid acquiring, multiple layer absorbent core

Abstract:

Source: US5304161A An absorbent article, such as a disposable diaper, adult incontinent pad, sanitary napkin, and the like, is disclosed which has a rapid acquiring, multiple layer absorbent core. The absorbent article may be in an improved shape that can be worn in the wearer's usual undergarments. The absorbent article of the present invention comprises a liquid pervious topsheet, a liquid impervious backsheet, and a multiple layer absorbent core positioned between the topsheet and the backsheet. The multiple layer absorbent core comprises at least one rapid acquiring acquisition/distribution layer and at least one storage layer positioned subjacent each acquisition layer. The acquisition/distribution layers have a fluid acquisition/distribution rate of at least about 2 cubic centimeters of synthetic urine per second when tested under a pressure of about 28 grams per square centimeter. The storage layers at least partially comprise a "high-speed" absorbent gelling material which is capable of reaching at least about 40 percent of its absorptive capacity in less than or equal to about 10 seconds. A multiple layer absorbent core for an absorbent article is also disclosed.



Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/45 A61F13/53 A61F13/538

A61L15/16 (Advanced/Invention);

A61F13/00 A61F13/15 A61F13/20 A61L15/16 (Advanced/Non-invention);

A61F13/15 (Core/Non-invention);

A61F (Subclass/Invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F13/45 A61F13/46 A61F13/53

A61F13/538 A61L15/16

CPC: A61F13/15203 A61F13/4758 A61F13/533 A61F13/536 A61F13/53717 A61F13/5376

A61F2013/53016 A61F2013/53035 A61F2013/53721 A61F2013/53726 A61F2013/53739

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European: A61F13/15J A61F13/475B A61F13/536 A61F13/537B4 A61F13/537D K61F13/15H6

K61F13/533 K61F13/537B5 K61F13/537B5A K61F13/537B5D K61F13/537G K61F13/539A

K61F13/539A1 K61F13/539A2 K61F13/539C K61F13/539E K61F13/539G K61F13/539H K61F13/53L

K61F13/53L4B K61F13/53L5 K61F13/53L5B K61F13/53L5B1 K61F13/53L5B2 K61F13/53M

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K61F13/53M7 K61F13/53M7A K61F13/53M7B K61F13/53M7D K61F13/53Q2E K61F13/53S5A

US: 604/358 604/368 604/378

Family:

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PT99976 B	20010629	PT19920099976	19920103
RU2127573 C1	19990320	RU19930051792	19911220
SK280045 B6	19990712	SK19930000683	19911220
SK68393 A3	19940511	SK19930000683	19911220
TR28310 A	19960409	TR19920000008	19920103
US5304161 A	19940419	US19920931122	19920817
WO9211830 A2	19920723	WO1991US09695	19911220
WO9211830 A3	19921015	WO1991US09695	19911220

Priority:

US19910637090 19910103 WO1991US09695 19911220 US19920931122 19920817

Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE COMPANY ; DZE PROKTER EHND GEHMBL KOMPANI

Assignee(s): NOEL JOHN RICHARD ; AHR NICHOLAS ALBERT

Inventor(s): (std): AHR N A ; AHR NICHOLAS A ; AHR NICHOLAS ALBERT ; ALBERT AHR NICHOLAS ; DZHON RICHARD NOEHL ; NA AHR ; NICHOLAS ALBERT AHR ; NIKOLAS ALBERT AR ; NOEL J R ; NOEL JOHN R ; NOEL JOHN RICHARD ; RICHARD NOEL JOHN ; JOHN RICHARD NOEL ; JR NOEL

Inventor(s): N A AHR ; J R NOEL

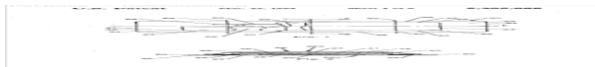
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; SIM AND MCBURNEY

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 SD SE SN SU TD TG

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 A61F13/551 A61F13/5514 A61F2013/51147

A61F2013/51409 A61F2013/53016 A61F2013/530445 A61F2013/530481 A61F2013/530802

A61F2013/53721 A61F2013/53726 A61F2013/53795

European: A61F13/472D A61F13/551B2B K61F13/15C3D1 K61F13/15D4B K61F13/15E2D

K61F13/15E2D4 K61F13/15E2D4A K61F13/15E2D7 K61F13/15E4C K61F13/15E6A K61F13/15E7

K61F13/15E8 K61F13/15H2 K61F13/49D2 K61F13/511D6 K61F13/514A4 K61F13/537

K61F13/537B5 K61F13/537B5A K61F13/537H K61F13/53M2 K61F13/53P1 K61F13/53Q K61F13/53R

K61F13/551

US: 604/358 604/385.02 604/385.03 604/385.05 604/385.2 604/385.23 604/386 604/389 604/390

Family:

Publication number	Publication date	Application number	Application date
AT167048 E	19980615	AT19930920334T	19930825
AU199350912 A1	19940329	AU19930050912	19930825
AU690078 B2	19980423	AU19930050912	19930825
BRPI9307009 A	19990223	BR1993PI07009	19930825
CA2143458 AA	19950227	CA19932143458	19930825
CA2143458 C	19980818	CA19932143458	19930825
CN1078813 C	20020206	CN19931018982	19930904
CN1087510 A	19940608	CN19931018982	19930904
DE69319148 D1	19980716	DE19936019148	19930825
DE69319148 T2	19981105	DE19936019148T	19930825
EG20077 A	19970831	EG19930000564	19930902
EP0699062 A1	19960306	EP19930920334	19930825
EP0699062 B1	19980610	EP19930920334	19930825
ES2117144 T3	19980801	ES19930920334T	19930825
FI951007 A	19950303	FI19950001007	19950303
FI951007 A0	19950303	FI19950001007	19950303
HK1012159 A1	19990723	HK19980113160	19981210
JP3523868 B2	20040426	JP19940507284T	19930825
JP8501007 T2	19960206	JP19940507284T	19930825
KR100290939 B1	20011024	KR19950700877	19950304
KR19950702814 A	19950823	KR19950700877	19950304
NO302396 B1	19980302	NO19950000820	19950302
NO950820 A	19950426	NO19950000820	19950302
NO950820 A0	19950302	NO19950000820	19950302

NZ255889 A	19970526	NZ19930255889	19930825
PH30785 A	19971017	PH19930046789	19930901
PH30785 A	19971017	PH19930000467	19930901
SG54168 A1	19981116	SG19960003040	19930825
TH14825 A	19941028	TH19931001563	19930901
TH6354 B	19961219	TH19931001563	19930901
TR27068 A	19941012	TR19930000756	19930903
US5295988 A	19940322	US19920941341	19920904
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 BLENDED MULTI-LAYER ABSORBENT STRUCTURE WITH IMPROVED INTEGRITY

Abstract:

An **absorbent article**, such as a diaper, sanitary napkin, adult incontinence device which has absorbent components comprised of blends of different types of **fibers** is provided. The absorbent components are arranged in structures that provide improved core integrity and liquid processing. The **absorbent article** preferably comprises a liquid pervious topsheet, a liquid impervious backsheet joined to the topsheet, an absorbent core positioned between the topsheet and the backsheet, and an **acquisition layer** overlying the absorbent core. The absorbent core comprises a blend of cellulosic **fibers**, absorbent gelling material, and **fibers** such as crimped synthetic **fibers** that form liquid stable bonds with adjacent layers. The **acquisition layer** also comprises at least some **fibers** that form liquid stable bonds with adjacent layers. The **fibers** that form liquid stable bonds in the absorbent core and the **acquisition layer** are bonded to liquid stable components. The liquid stable components can comprise the topsheet, the backsheet, and an optional intermediate liquid stable layer positioned between the **acquisition layer** and the absorbent core.



Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 A61F13/539 D04H13/00 (Advanced/Invention);

A61F13/45 D04H13/00 (Advanced/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/46 D04H13/00

CPC: A61F13/535 A61F13/533 A61F13/53747 A61F13/539 A61F2013/530007 A61F2013/530051

A61F2013/530058 A61F2013/530094 A61F2013/530102 A61F2013/530109 A61F2013/530131

A61F2013/530145 A61F2013/530153 A61F2013/53016 A61F2013/530167 A61F2013/530175

A61F2013/530255 A61F2013/530299 A61F2013/530343 A61F2013/53035 A61F2013/530357

A61F2013/530372 A61F2013/530547 A61F2013/530934 A61F2013/53721 A61F2013/53726

A61F2013/53739 A61F2013/53908 A61F2013/53916 A61F2013/53925 A61F2013/5395

A61F2013/53966 A61F2013/53975 A61F2013/53983

European: A61F13/535 A61F13/537C2 A61F13/539 K61F13/15H6 K61F13/533 K61F13/537B5

K61F13/537B5A K61F13/537B5D K61F13/539A K61F13/539A1 K61F13/539A2 K61F13/539C

K61F13/539E K61F13/539G K61F13/539H K61F13/53L K61F13/53L4B K61F13/53L5 K61F13/53L5B

K61F13/53L5B1 K61F13/53L5B2 K61F13/53M K61F13/53M1A K61F13/53M1B K61F13/53M2

K61F13/53M2A K61F13/53M2B K61F13/53M4D K61F13/53M4E K61F13/53M7 K61F13/53M7A

K61F13/53M7B K61F13/53M7D K61F13/53Q2E K61F13/53S5A

Family:

Publication number	Publication date	Application number	Application date
AU199510896 A1	19950606	AU19950010896	19941114
BRPI9408074 A	19970812	BR1994PI08074	19941114
CA2176698 AA	19960515	CA19942176698	19941114
CA2176698 C	20010911	CA19942176698	19941114
DE69434792 D1	20060824	DE19946034792	19941114
DE69434792 T2	20070802	DE19946034792T	19941114
EP0729335 A1	19960904	EP19950901788	19941114
EP0729335 B1	20060712	EP19950901788	19941114
JP3739393 B2	20060125	JP19950514480T	19941114
JP9505218 T2	19970527	JP19950514480T	19941114
KR19960705530 A	19961108	KR19960702567	19960515
WO9513776 A1	19950526	WO1994US12748	19941114

Priority:

US19930153739 19931116

US19930164049 19931208

WO1994US12748 19941114

Probable Assignee: PROCTER AND GAMBLE

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

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

NICHOLAS ALBERT ; BOGDANSKI MICHAEL SCOTT ; DRAGOO JERRY LAYNE ;
NOEL JOHN RICHARD

Inventor(s): (std): NOEL RICHARD ; DRAGOO LAYNE ; BOGDANSKI SCOTT ; AHR ALBERT ; NOEL
JOHN RICHARD ; NICHOLAS ALBERT AHR ; MICHAEL SCOTT BOGDANSKI ;
JOHN RICHARD NOEL ; JERRY LAYNE DRAGOO ; DRAGOO JERRY LAYNE ;
BOGDANSKI MICHAEL SCOTT ; AHR NICHOLAS ALBERT

Agent(s): SIM AND MCBURNEY

Designated states: 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 IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML
MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA UZ
VN

Title: Absorbent article having rapid acquiring, multiple layer absorbent core

Abstract:

Source: US5439458A An absorbent article, such as a disposable diaper, adult incontinent pad, sanitary napkin, and the like, is disclosed which has a rapid acquiring, multiple layer absorbent core. The absorbent article may be in an improved shape that can be worn in the wearer's usual undergarments. The absorbent article of the present invention comprises a liquid pervious topsheet, a liquid impervious backsheet, and a multiple layer absorbent core positioned between the topsheet and the backsheet. The multiple layer absorbent core comprises at least one rapid acquiring acquisition/distribution layer and at least one storage layer positioned subjacent each acquisition layer. The acquisition/distribution layers have a fluid acquisition/distribution rate of at least about 2 cubic centimeters of synthetic urine per second when tested under a pressure of about 28 grams per square centimeter. The storage layers at least partially comprise a "high-speed" absorbent gelling material which is capable of reaching at least about 40 percent of its absorptive capacity in less than or equal to about 10 seconds. A multiple layer absorbent core for an absorbent article is also disclosed.



Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/45 A61F13/53 A61F13/538 A61L15/16 (Advanced/Invention);

A61F13/15 (Advanced/Non-invention);

A61F13/20 (Core/Invention);

A61F13/15 (Core/Non-invention);

A61F (Subclass/Invention)

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

CPC: A61F13/15203 A61F13/4758 A61F13/533 A61F13/536 A61F13/53717 A61F13/5376 A61F2013/530007 A61F2013/530051 A61F2013/530058 A61F2013/530094 A61F2013/530102 A61F2013/530109 A61F2013/530131 A61F2013/530145 A61F2013/530153 A61F2013/53016 A61F2013/530167 A61F2013/530255 A61F2013/530299 A61F2013/530343 A61F2013/53035 A61F2013/530357 A61F2013/530372 A61F2013/530547 A61F2013/530934 A61F2013/53721 A61F2013/53726 A61F2013/53739 A61F2013/53791 A61F2013/53908 A61F2013/53916 A61F2013/53925 A61F2013/5395 A61F2013/53966 A61F2013/53975 A61F2013/53983

European: A61F13/15J A61F13/475B A61F13/536 A61F13/537B4 A61F13/537D K61F13/15H6 K61F13/533 K61F13/537B5 K61F13/537B5A K61F13/537B5D K61F13/537G K61F13/539A K61F13/539A1 K61F13/539A2 K61F13/539C K61F13/539E K61F13/539G K61F13/539H K61F13/53L K61F13/53L4B K61F13/53L5 K61F13/53L5B K61F13/53L5B1 K61F13/53L5B2 K61F13/53M K61F13/53M1A K61F13/53M1B K61F13/53M2 K61F13/53M2A K61F13/53M4D K61F13/53M4E K61F13/53M7 K61F13/53M7A K61F13/53M7B K61F13/53M7D K61F13/53Q2E K61F13/53S5A

US: 604/358 604/367 604/368 604/369 604/372 604/378 604/385.04

Family:

Publication number	Publication date	Application number	Application date
US5439458 A	19950808	US19930108861	19930818

Priority:

US19910637090 19910103 US19920931122 19920817 US19930108861 19930818

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): NOEL JOHN R ; AHR NICHOLAS A

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, 1996

The 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
BRPI9508479 A	19971028	BR1995PI08479	19950713
CA2196162 AA	19970128	CA19952196162	19950713
CA2196162 C	20010130	CA19952196162	19950713
CN1158558 A	19970903	CN19951095181	19950713
CO4410169 A1	19970109	CO19950033986	19950731
DE69421613 D1	19991216	DE19946021613	19940801
DE69421613 T2	20000525	DE19946021613T	19940801
DE69421613 T3	20040923	DE19946021613T	19940801
EP0695541 A1	19960207	EP19940111955	19940801
EP0695541 B1	19991110	EP19940111955	19940801
EP0695541 B2	20040331	EP19940111955	19940801
ES2138019 T3	20000101	ES19940111955T	19940801
GR3031932 T3	20000331	GR19990403024T	19991124
HK1013231 A1	20000929	HK19980114472	19981221
JP10503683 T2	19980407	JP19960506514	19950713
JP2006167478 A2	20060629	JP20060003786	20060111
JP4527063 B2	20100818	JP20060003786	20060111
KR19970704391 A	19970906	KR19970700663	19970131
MX9700830 A1	19970930	MX19970000830	19950713
PE15397 A1	19970515	PE19950274995	19950731
TR9500928 A2	19960621	TR19950000928	19950801
TR960100 A2	19960621	TR19950000928	19950801
US5830202 A	19981103	US19970776372	19970129
WO9603947 A1	19960215	WO1995US08709	19950713
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
AU199642880 A1	19960619	AU19960042880	19951122
BRPI9509923 A	19970930	BR1995PI09923	19951122
CA2204895 AA	19970508	CA19952204895	19951122
CA2204895 C	20010410	CA19952204895	19951122
CA2297601 AA	19960606	CA19952297601	19951122
CA2297601 C	20041102	CA19952297601	19951122
CN1124115 C	20031015	CN19951097334	19951122
CN1173121 A	19980211	CN19951097334	19951122
DE69517699 D1	20000803	DE19956017699	19951122
DE69517699 T2	20010222	DE19956017699T	19951122
EP0788336 A1	19970813	EP19950941470	19951122
EP0788336 B1	20000628	EP19950941470	19951122
ES2147862 T3	20001001	ES19950941470T	19951122
GR3033599 T3	20000929	GR20000401269T	20000629
HK1002349 A1	20010518	HK19980101133	19980212
JP10510732 T2	19981020	JP19960518958T	19951122
KR100226401 B1	19991015	KR19977003642	19970530
MX9703948 A1	19971031	MX19970003948	19951122
MY118431 A	20041129	MY19950003673	19951130
TH20778 A	19960924	TH19951003071	19951129
US5560878 A	19961001	US19940346653	19941130
US5858292 A	19990112	US19960650298	19960520
WO9616625 A1	19960606	WO1995US15336	19951122
ZA9510149 A	19960606	ZA19950010149	19951129

Priority:

US19940346653 19941130

CA19952204895 19951122

US19960650298 19960520

WO1995US15336 19951122

CA19952297601 19951122

CA19952297601 19951122

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: FOAMS MADE FOR HIGH INTERNAL PHASE EMULSIONS USEFUL AS ABSORBENT MEMBERS FOR CATAMENIAL PADS

Abstract: Source: US5795921A Foams capable of absorbing blood and blood-based fluids, especially menses. These absorbent foams have high capillary absorption pressures required of absorbents used in catamenial products, yet have sufficient openness to allow free movement of the insoluble components in blood-based fluids such as menses. These absorbent foams are made by polymerizing high internal phase emulsions (HIPes) where the volume to weight ratio of the water phase to the oil phase is in the range of from about 20:1 to about 125:1. These foams are particularly useful as absorbent members for catamenial pads.



Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/472 A61F13/53 A61L15/00 A61L15/16 A61L15/24 A61L15/42 A61L31/04 A61L31/14 C08F2/32 C08F212/12 C08F220/10 C08J9/00 G06F3/038 (Advanced/Invention);
A61F13/00 A61F13/15 A61F13/20 A61L15/00 C08J9/00 (Advanced/Non-invention);
A61F13/00 A61F13/15 A61F13/20 A61L15/00 A61L15/16 A61L31/04 A61L31/14 C08F2/32 C08F212/00 C08F220/00 C08J9/00 G06F3/033 (Core/Invention);
A61F13/15 (Core/Non-invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F13/46 A61F13/472 A61F13/53 A61L 15/42 A61L15/00 A61L15/16 A61L15/24 A61L15/42 A61L31/00 B32B3/10 C08F12/08 C08F13/15 C08F13/20 C08F2/32 C08F20/10 C08F212/12 C08F220/10 C08J9/00 C08J9/28

CPC: A61F13/476 A61F2013/15317 A61F2013/15471 Y10T428/24273 Y10T428/24322

A61F13/47227 A61F13/15203 A61L15/24 A61L15/425 A61L31/048 A61L31/146 C08F2/32

European: A61F13/15J A61F13/472B1 A61L15/24 A61L15/42E A61L31/04H A61L31/14H C08F2/32 K61F13/15J8A3 K61F13/15J8M1 K61F13/476

US: 428/131 428/137 521/146 521/62 521/63 521/64 604/358 604/369 604/385.01 604/385.1 604/387

Family:

Publication number	Publication date	Application number	Application date
AR000655 A1	19970710	AR19960334979	19960110
AR007712 AA	19991110	AR1997P102961	19970702
AU199648973 A1	19960731	AU19960048973	19960111
AU199649888 A1	19960918	AU19960049888	19960220
AU199733135 A1	19980121	AU19970033135	19970613
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AU713918 B2	19991216	AU19960049888	19960220
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CA2208642 AA	19970624	CA19962208642	19960111
CA2208642 C	20040413	CA19962208642	19960111
CA2213263 AA	19970818	CA19962213263	19960220
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CA2226408 AA	19960718	CA19962226408	19960111
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CA2259542 AA	19990104	CA19972259542	19970613
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CZ9702717 A3	19980114	CZ19970002717	19960220
CZ9900016 A3	19990512	CZ19990000016	19970613
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DE69618174 T2	20020822	DE19966018174T	19960111
DE69621005 D1	20020606	DE19966021005	19960220
DE69621005 T2	20021219	DE19966021005T	19960220
DE69709134 D1	20020124	DE19976009134	19970613
DE69709134 T2	20020718	DE19976009134T	19970613
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HU9800796 AB	19980728	HU19980000796	19960111
HU9801584 AB	19981028	HU19980001584	19960220
HU9904307 AB	20000428	HU19990004307	19970613
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JP10512168 T2	19981124	JP19960521815T	19960111
JP11500940 T2	19990126	JP19960526300T	19960220
JP11513921 T2	19991130	JP19980504185T	19970613
JP3432828 B2	20030804	JP19960521815T	19960111
JP3459260 B2	20031020	JP19960526300T	19960220
JP3488246 B2	20040119	JP19980504185T	19970613
KR100257434 B1	20000515	KR19977004691	19970709
KR100259731 B1	20000615	KR19977006087	19970901
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ZA9601486 A	19960828	ZA19960001486	19960223
ZA9705825 A	19980901	ZA19970005825	19970630

Priority:

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CA19962226408	19960111	CA19962226408	19960111	US19950542497	19951013
US19960688496	19960730	US19970955555	19971020	WO1996US02251	19960220
WO1997US10607	19970613	US19960675138	19960703	CA19962208642	19960111

Probable Assignee: PROCTER AND GAMBLE

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

Assignee(s): THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; THE PROCTER AND GAMBLE COMPANYUS ; PROCTER AND GAMBLE CO CINCINNATI ; DYER JOHN COLLINS ; GAMBLE CO ; HAMMONS JOHN LEE ; THE PROCTER AND GAMBEL CO ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PROCTER AND ; LLOYD SUSAN NICOLE ; LAMPSON PATRICIA LEE ; PROCTER AND GAMBEL CO

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Inventor(s): Lampson ; J L HAMMONS ; JOHN COLLINS YER ; Patricia Lee ; P L LAMPSON ; SUZAN NICOLE LLOYD

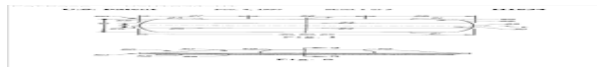
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; SIM AND MCBURNEY; JIMENA ESCOBAR URIBE; CARLOS REINALDO OLARTE GARCIA

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 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 TJ TM TR TT UA UG UZ VN YU ZW

Title: Compound sanitary napkin

Abstract: Source: USH1634H The present invention pertains to a compound sanitary napkin. The compound sanitary napkin includes



a primary absorbent member secured to a secondary absorbent member. The primary absorbent member includes an absorbent core wrapped in an outer cover, at least a portion of the outer cover being liquid impervious. The secondary absorbent member includes a liquid impervious backsheet and an absorbent material joined thereto. Optionally, the secondary absorbent member includes a backsheet, a topsheet joined to the backsheet and an absorbent core disposed between the backsheet and the topsheet.

Classifications:

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

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

CPC: A61F13/4702 A61F13/47227 A61F13/51305 A61F2013/4512 A61F2013/4543

European: A61F13/472B1 A61F13/513B K61F13/45C K61F13/45C3 K61F13/47A

US: 604/378 604/385.1 604/385.23

Family:

Publication number	Publication date	Application number	Application date
AR001355 A1	19971022	AR19960335531	19960223
AT192643 E	20000515	AT19960903795T	19960206
AU199647769 A1	19960911	AU19960047769	19960206
AU199947389 A1	19991118	AU19990047389	19990906
CA2210134 AA	19970711	CA19962210134	19960206
CA2210134 C	20010424	CA19962210134	19960206
CO4370144 A1	19961007	CO19960008187	19960222
DE69608259 D1	20000615	DE19966008259	19960206
DE69608259 T2	20001019	DE19966008259T	19960206
EP0812171 A1	19971217	EP19960903795	19960206
EP0812171 B1	20000510	EP19960903795	19960206
ES2145435 T3	20000701	ES19960903795T	19960206
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JP11500641 T2	19990119	JP19960525710T	19960206
JP3782110 B2	20060607	JP19960525710T	19960206
KR100271103 B1	20001201	KR19977005861	19970823
MX9706377 A1	19971129	MX19970006377	19960206
TH22344 A	19961217	TH19961000550	19960222
USH1634 H1	19970204	US19950394102	19950224
WO9625903 A1	19960829	WO1996US01647	19960206
ZA9601296 A	19960827	ZA19960001296	19960219

Priority:

US19950394102 19950224 AU19960047769 19960206 AU19990047389 19990906
WO1996US01647 19960206

Probable Assignee: PROCTER AND GAMBLE CO

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

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

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MCFALL RONALD R ; MCFALL RONALD RAY ; OETJEN CHRISTOPHER ; OETJEN
DAVID C ; OETJEN DAVID CHRISTOPHER ; DAVID CHRISTOPHER OETJEN ;
RICHARD GEORGE COE ; RONALD RAY MCFALL

Inventor(s): Coe ; Ronald Ray ; Mcfall ; Richard George ; Oetjen ; Daid Christopher

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

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES
FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC
MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN
SZ TJ TM TR 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
CN1207664 A	19990210	CN19961099618	19961114
CO4480096 A1	19970709	CO19960062774	19961128
DE69620008 D1	20020425	DE19966020008	19961114
DE69620008 T2	20021024	DE19966020008T	19961114
EP0863736 A1	19980916	EP19960941340	19961114
EP0863736 B1	20020320	EP19960941340	19961114
JP11500651 T2	19990119	JP19970520511T	19961114
KR100266496 B1	20000915	KR19980703961	19980527
KR19990071685 A	19990927	KR19980703961	19980527
MX9804223 A1	19980930	MX19980004223	19980527
PE34598 A1	19980807	PE19960000845	19961127
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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 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: CUBIERTAS DESECHABLES PARA MATERIAL ABSORBENTE, CUBIERTAS QUE COMPRENDEN UNA BARRERA ANTIREHUMEDECIMIENTO PERMEABLE QUE TIENE CAPILARES, UNA BARRERA ANTIMANCHAS IMPERMEABLE, UN MEDIO DE ASEGURAMIENTO A LA PRENDA DEL USUARIO Y UN ELEMENTO RIGIDO COVERS DISPOSABLE absorbent material comprising a COVERS PERMEABLE BARRIER ANTIREHUMEDECIMIENTO having capillary, A BARRIER ANTI IMPERMEABLE, A MEANS OF SECURING A USER AND GARMENT an element RIGID (Machine translation)

Abstract:

Source: CO4480015A LA PRESENTE INVENCION SE REFIERE A CUBIERTAS DESECHABLES PARA SER USADOS CON UN MATERIAL ABSORBENTE TAL COMO UNA TOALLA SANITARIA. DICHAS CUBIERTAS ABSORBENTES DESECHABLES COMPRENDEN UNA BARRERA ANTIREHUMEDECIMIENTO PERMEABLE A LIQUIDOS Y UNA BARRERA ANTIMANCHAS UNIDA A ELLA. PREFERIBLEMENTE, LA BARRERA ANTIREHUMEDECIMIENTO CONTIENE UN MATERIAL QUE TIENE CAPILARES QUE PERMITEN QUE LOS LIQUIDOS CORPORALES PENETREN RAPIDAMENTE A TRAVES DE EL; Y LA BARRERA ANTIMANCHAS TIENE DOS PORCIONES, UNA DE LAS CUALES ESTA UNIDA A CADA UNO DE LOS EJES LONGITUDINALES DE LA BARRERA ANTIREHUMEDECIMIENTO, LAS CUBIERTAS DESECHABLE PUEDEN ESTAR PROVISTAS TAMBIEN CON UN MEDIO PARA ASEGURAR EL MATERIAL ABSORBENTE, CON EL FIN DE ASEGURAR LA CUBIERTA A ESTE MATERIAL ABSORBENTE, Y CON UN MEDIO DE ASEGURAMIENTO A LA PRENDA. PARA ASEGURAR EL CONJUNTO DE LA CUBIERTA DESECHABLE Y DEL MATERIAL ABSORBENTE A UNA PRENDA INTERIOR DEL USUARIO. CONFIGURACIONES ALTERNATIVAS DE LA INVENCION PUEDEN ASUMIR UNA CONFIGURACION DE BOLSILLO. ESTA CONFIGURACION ALTERNATIVA ES PARTICULARMENTE UTIL CUANDO EL MATERIAL ABSORBENTE ESTA EN UNA FORMA QUE CARECE DE UNA COHESION SIGNIFICATIVA, TAL COMO UNA ESTOPA DE FIBRA. FIGURA 1 The present invention REFERS TO COVER disposable for use with an absorbent material such as a sanitary towel. COVERED INCLUDE SUCH A BARRIER disposable absorbent liquid permeable ANTIREHUMEDECIMIENTO AND ANTI BA stroke attached to it. Preferably, the BARRIER ANTIREHUMEDECIMIENTO CONTAINS material having capillary that allow liquids BODY readily penetrate through it; BARRIER AND HAS ANTI two portions, ONE OF WHICH IS ATTACHED TO EACH OF THE BARRIER longitudinal axes ment thanking ANTIREHUME-, COVERS DISPOSABLE may also be provided with a means to secure the absorbent material, FOR THE PURPOSE OF SECURE COVER TO THIS absorbent material and medium AN ASSURANCE TO TURN. TO ENSURE THE DISPOSABLE SET COVER AND absorbent material INTERIOR USER TO TURN. ALTERNATIVE CONFIGURATIONS the invention may assume a pocket configuration. ALTERNATIVE This configuration is particularly useful when the absorbent material is in a form that lacks cohesion SIGNIFICANT such as a **fiber** tow. Figure 1

Classifications:

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

A61F13/15 (Core/Invention)

International (IPC 1-7): A61F13/15

Family:

Publication number	Publication date	Application number	Application date
CO4480015 A1	19970709	CO19950047244	19951010

Priority:

CO19950047244 19951010

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): BARROSO CARLOS JOSE ; DIGVIJAY RAWAT ; HINES LETHA MARGIE ; MORRIS PETER ; OLSEN ROBB ERIC ; REDWINE NONA JANE ; RESTREPO J ALVARO ; SEYMOUR MARK D ; SHIKATA HIROAKI

Inventor(s): PETER MORRIS ; RAWAT DIGVIJAY ; HIROAKI SHIKATA ; JANE REDWINE NONA ; MARGIE HINES LETHA ; MARK D SEYMOUR ; ERIC OLSEN ROBB ; CARLOS JOSE BARROSO ; ALVARO RESTREPO J

Agent(s): JIMENA ESCOBAR URIBE

Title: TEAR RESISTANT POROUS EXTENSIBLE WEB

Abstract:

Source: US2004013852A The present invention pertains to a porous, macroscopically-expanded, three-dimensional, elastomeric web suitable for use in elasticized portions of disposable **absorbent articles** such as bandages, diapers and pull-up diaper training pants. In a preferred embodiment the web has a continuous first surface and a discontinuous second surface remote from first surface. An elastomeric web of the present invention preferably comprises a formed film having at least two polymeric layers, with at least one of the layers being an elastomer and at least one of the other layers being a substantially less elastomeric skin layer. In a preferred embodiment the elastomeric web exhibits a multiplicity of primary apertures in the first surface of the web, the primary apertures being defined in the plane of the first surface by a continuous network of interconnecting members. Each interconnecting member exhibits an upwardly concave-shaped cross-section along its length. The interconnecting members terminate substantially concurrently with one another to form a secondary aperture in the plane of the second surface of the web. Also disclosed is a method of producing the elastomeric web of the present invention comprising providing a multilayer elastomeric film, supporting the film on a forming structure, and applying a fluid pressure differential across the thickness of the multilayer film. The fluid pressure differential is sufficiently great to cause the multilayer film to conform to the supporting structure and rupture in at least portions of the formed film.



Classifications:

International (IPC 8-9): A41B17/00 A61F13/15 A61F13/49 A61F13/511 A61F13/56 A61F5/44 B29C51/00 B29C67/20 B32B25/10 B32B3/10 B32B3/24 B32B5/02 B32B5/18

D04H13/00 (Advanced/Invention);

A41B17/00 A61F13/15 A61F13/56 A61F5/44 B29C67/20 B32B5/18 (Advanced/Non-invention);

A41B17/00 A61F13/15 A61F13/56 A61F5/44 B29C67/20 B32B25/00 B32B3/10 B32B5/18

D04H13/00 (Core/Invention);

A61F A61L B29C B32B D04H (Subclass/Invention)

International (IPC 1-7): A41B17/00 A61F A61F13/15 A61F13/49 A61F13/511 A61F13/56 A61F5/44 A61L B29C B29C67/20 B32B B32B3/10 B32B5/02 B32B5/18 D04H13/00

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European: A61F13/15M2B A61F13/49D2H A61F13/512 A61F13/514B2 B29C47/00J5 B29C47/00J9 B29C47/06P B29C51/10 B29C51/14B B32B25/10 D04H13/00B3 L29C47/06Q L29C55/18 L29C793/00E L29K105/06 L29K23/06 L29K23/12 L29K995/00F7 L29L31/48E2

US: 264/156 264/156P 264/504 264/504S 264/544 264/544S 428/131 428/131P 428/132 428/134 428/134P 428/137 428/138 604/378 604/383 604/385.01 604/385.101 604/385.24

Family:

Publication number	Publication date	Application number	Application date
AR011691 AA	20000830	AR1998P100770	19980220
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AU199861711 A1	19980909	AU19980061711	19980218
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PE62999 A1	19990826	PE19980000130	19980223
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TR9902029 T2	20010321	TR19990002029T	19980218
TW524751 B	20030321	TW19980102501	19980318
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Priority:

US19970803905 19970221	US19970813489 19970307	WO1998US03043 19980218
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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): CURRO JOHN J ; CURRO JOHN JOSEPH ; MANSFIELD MICHELE A ; DOBRIN GEORGE C ; DOBRIN GEORGE CHRISTOPHER ; PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; PELKIE JAMES E ; MANSFIELD MICHELE ANN ; TEAR RESISTANT POROUS EXTENSIB ; TEAR RESISTANT POROUS EXTENSIBLE WEB ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

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

Inventor(s): (std): DOBRIN GEORGE C ; DOBRIN GEORGE CHRISTOPHER ; DOBRIN GEORGE CHRISTOPHER ; GEORGE C DOBRIN ; GEORGE CHRISTOPHER DOBRIN ; GEORGE CHRISTOPHER DOBRIN ; JOHN J CURRO ; JOHN JOSEPH CURRO ; MANSFIELD ANN ; MANSFIELD MICHELE ; MANSFIELD MICHELE A ; MANSFIELD MICHELE ANN ; MANSFIELD MICHELLE ANN ; MASFIELD MICHELE ANN ; MICHELE ANN MANSFIELD ; CURRO JOHN J ; CURRO JOHN JOSEPH ; CURRO JOSEPH ; DOBRIN CHRISTOPHER ; MICHELE MANSFIELD ; PELKIE JAMES E

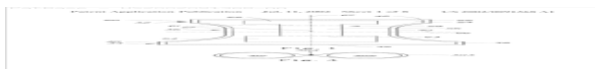
Inventor(s): CURRO JOHN ; PELKIE JAMES ; DOBRIN GEORGE ; MICHELE ANN MASFIELD

Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; DARA M; KEN K; ERIC T

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 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: **ABSORBENT ARTICLES** COMPRISING A MATERIAL HAVING A HIGH VERTICAL WICKING CAPACITY

Abstract: Source: US2002091368A Disclosed are absorbent cores for inclusion in articles such as diapers, incontinent briefs, training pants,



diaper holders and liners, feminine hygiene garments, and the like, designed to provide improved fit and comfort for the wearer while adequately containing body exudates. The absorbent core is designed so as to retain low levels of fluid in the crotch region, relative to the other core regions, even when the core absorbs significant amounts of fluid during use. To achieve this, the absorbent core is designed such that fluid is moved substantially from the crotch region to the front and/or rear ends of the article. In particular, the absorbent core comprises in its crotch region a material having significant vertical wicking absorbent capacities. The absorbent core also preferably comprises a non-removable absorbent core component in the crotch region, and removable absorbent core components in the front or rear regions of the article.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/42 A61F13/45 A61F13/472 A61F13/49 A61F13/49A A61F13/496 A61F13/50 A61F13/505 A61F13/513 A61F13/514 A61F13/53 A61F13/534 A61F13/551 A61F5/44 B60T13/569 H04Q7/20 (Advanced/Invention); A61F13/00 A61F13/15 A61F13/49 A61F13/505 A61F13/513 A61F13/53 A61F5/44 (Advanced/Non-invention); A61F13/15 A61F13/42 A61F5/44 B60T13/52 H04Q7/20 (Core/Invention); A61F13/00 (Core/Non-invention); A61F (Subclass/Invention)

International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F13/42 A61F13/472 A61F13/49 A61F13/505 A61F13/509 A61F13/513 A61F13/514 A61F13/53 A61F13/551 A61F5/44

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European: A61F13/15J A61F13/15J6 A61F13/42 A61F13/49D2B A61F13/505 A61F13/514E A61F13/532 A61F13/535 A61F13/539 A61F13/84 A61F13/84B K61F13/15J3 K61F13/15J4 K61F13/53M5

US: 119/171 442/412 604/358 604/358S 604/368 604/369 604/370 604/374 604/377 604/378 604/378S 604/380 604/380P 604/381 604/385.01 604/385.010P 604/385.02 604/385.03 604/385.04 604/385.05 604/385.06 604/385.060S 604/385.08 604/385.09 604/385.101 604/385.11 604/385.110S 604/385.12 604/385.13 604/385.14 604/385.140P 604/385.140S 604/385.15 604/385.16 604/385.19 604/385.190P 604/385.190S 604/385.201 604/385.21 604/385.23 604/385.24 604/385.25 604/385.28 604/385.29 604/385.3 604/385.31 604/386 604/387 604/389 604/390 604/391 604/392 604/393 604/394 604/394P 604/395 604/395P 604/396 604/397 604/398 604/399 604/400 604/401 604/402

Family:

Publication number	Publication date	Application number	Application date
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AR011703 AA	20000830	AR1998P101429	19980327
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Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): HARDIE STEPHEN L ; HARDIE STEPHEN LEBEUF ; HAYDEN MICHAEL PATRICK ; HENRICH THOMAS ; KLINE MARK J ; KLINE MARK JAMES ; LA VON GARY D ; LAVON GARY D ; LAVON GARY DEAN ; PROCTER AND GAMBLE CO ; YOUNG GERALD A ; MILBRADA EDWARD J ; PROCTER AND GAMBLE ; PROCTER and GAMBLE CO ; YOUNG GERALD ALFRED ; PROCTOR AND GAMBLE CO ; MOHLENKAMP MONICA JEAN ; PROCET AND GAMBLE CO ; BECK THEODORA

Assignee(s): GAMBLE CO ; PROCTER AND GAMBLE COMPANYUS ; PROCTER AND GAMBLE CO CINCINNATI OHIO ; PROCTER AND GAMBLE CO CINCINNATI ; MILBRADA EDWARD JOHN ; TAYLOR GREGORY WADE ; PROCTER AND ; LA VON GARY DEAN

Inventor(s): (std): ALFRED YOUNG GERALD ; BECK T ; BECK THEODORA ; DEAN LAVON GARY ; EDWARD JOHN MILBRADA ; GA YONG ; GARY D LAVON ; GARY DEAN LAVON ; GD LAVON ; GERALD A YONG ; GERALD A YOUNG ; GERALD ALFRED YOUNG ; GREGORY W TAYLOR ; GREGORY WADE TAYLOR ; HAYDEN MICHAEL P ; HAYDEN MICHAEL PATRICK ; HENRICH THOMAS ; HENRICH YHOMAS ; JAMES KLINE MARK ; JOHN MILBRADA EDWARD ; HARDIE STEPHEN L ; HARDIE STEPHEN LEBEUF ; KLINE MARK J ; KLINE MARK JAMES ; LA VON GARY D ; LA VON GARY DEAN ; LAVON G D ; LAVON GARY DEAN ; LAVON GARY DEAN BECK THEODORA ; LAVON GARY DEAN BECK THEODORA YOUNG GERALD ALFRED ; LEBEUF HARDIE STEPHEN ; MARK JAMES KLINE ; MILBRADA EDWARD J ; MILBRADA EDWARD JOHN ; MOHLENKAMP MONICA J ; ROE DONALD C ; ROLLER JANET M ; STEPHEN LEBEUF HARDIE ; T BECK ; TAYLOR GREGORY WADE ; THEODORA BECK ; THOMAS HENRICH ; WADE TAYLOR GREGORY ; YONG G A ; YONG GERALD ALFRED ; YOUNG GERALD ALFRED ; YOUNGM GERALD A ; YOUNG GERALD A ; YOUNG ALFRED ; YONG GERALD A ; TAYLOR WADE ; TAYLOR GREGORY W ; MILBRADA JOHN EDWARD ; LAVON YOUNGM GERALD A MILBRADA ; LAVON GARY D ; LAVON DEAN ; HEINRICH THOMAS ; BECK THEODARA ; ROLLER JANET MADGE ; ROE DONALD CARROLL ; MOHLENKAMP MONICA JEAN

Inventor(s): G D LAVON ; G A YONG ; THEODARA BECK ; LAVON GARY DEAN BECK THEODORA YOUNG GERALD ALFRED HARDIE STEPHEN LEBEUF HENRICH THOMAS KLINE MARK JAMES MILBRADA EDWARD JOHN ; THOMAS HEINRICH ; YOUNG GERALDALFRED ; YOUNG GERALD ; YHOMAS HENRICH ; TAYLOR GREGORYWADE ; ROLLER JANET ; ROE DONALD ; MOHLENKAMP MONICA ; MILBRADA EDWARD ; LAVON GARYDEAN ; LAVON GARY DEAN BECK THEODORA YOUNG GERALD ; LAVON GARY ; LA VON GARY ; HAYDEN MICHAEL ; KLINE MARK ; HARDIE STEPHEN ; GERALD ALFRED YONG

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; DIMOCK STRATTON LLP; SIM AND MCBURNEY; ALVARO CORREA ORDONEZ; CARLOS REINALDO OLARTE GARCIA; BORBACH MARKUS; NAGAI HIROSHI; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO

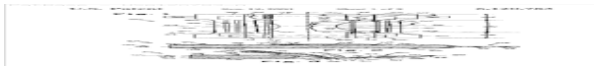
INTELLECTUAL PROPERTY DIVISION WEST BLDG; HAYDEN MICHAEL P; KREBS
JAY A; CUNNINGHAM JOAN B; MICHAEL P; JOAN B; JAY A; KEN K; RODDY M;
MATTHEW P; THIBAUT; FAYETTE THIBAUT; FITZPATRICK MATTHEW P;
GALLAGHER WILLIAM E; WILLIAM E

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM
CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN
GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV
MA MC MD MG MK ML MN MR MW MX MZ 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 UZ VC VN
YU ZA ZM 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
CA2305551 AA	20000403	CA19982305551	19981019
CA2305551 C	20040525	CA19982305551	19981019
CN1283094 A	20010207	CN19988012659	19981019
CN1315446 C	20070516	CN19988012659	19981019
CO5070626 A1	20010828	CO19980064545	19981103
DE69817388 D1	20030925	DE19986017388	19981019
DE69817388 T2	20040624	DE19986017388T	19981019
EG22469 A	20030226	EG19980001339	19981031
EP1027022 A1	20000816	EP19980952373	19981019
EP1027022 B1	20030820	EP19980952373	19981019
ES2205564 T3	20040501	ES19980952373T	19981019
IL135455 A0	20010520	IL19980135455	19981019
JP2001521994 T2	20011113	JP20000518625T	19981019
JP4463419 B2	20100519	JP20000518625T	19981019
KR100476911 B1	20050317	KR20007004658	20000428
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

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 CARROLL 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 CARROLL ; 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

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 HR 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: ABSORBENT PRODUCT HAVING CONTINUOUS **FIBERS** BONDED IN A BONDING PATTERN

Abstract:

Source: US2002087136A **Absorbent article** such as a

diaper, pant diaper, incontinence guard, sanitary napkin, wound dressing or the like comprising a layer of continuous **fibers** (9), so called tow, which is bonded in points, spots or lines in a bonding pattern (10), but where the **fibers** otherwise are substantially unbonded to each other. Said layer can either be used as a liquid **acquisition layer** (5) in the article under the topsheet (2), as a topsheet (12) or as a combined topsheet and liquid **acquisition layer** (22).



Classifications:

International (IPC 8-9): A61F13/00 A61F13/14 A61F13/15 A61F13/472 A61F13/49 A61F13/511 A61F13/53 A61F13/534 A61F13/538 A61F5/44 B32B5/00 B32B5/02 B32B5/14 D01D11/02

D04H1/44 D04H1/74 (Advanced/Invention);

A61F13/00 A61F13/14 A61F13/15 A61F13/45 A61F5/44 B32B5/00 B32B5/02

B32B5/14 (Advanced/Non-invention);

A61F13/00 A61F13/14 A61F13/15 A61F5/44 B32B5/00 B32B5/02 B32B5/14 D01D11/00 D04H1/44

D04H1/70 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F13/14 A61F13/15 A61F13/20 A61F13/46 A61F13/49 A61F13/511 A61F13/53 A61F13/534 A61F13/537 A61F13/538 A61F5/44 A61M1/00 B32B5/00 B32B5/02 B32B5/14 D01D11/02 D04H1/44 D04H3/14

CPC: A61F13/5376 A61F2013/15422 A61F2013/15495 A61F2013/15504 Y10T156/1023 Y10T428/24479 A61F13/53747 A61F13/15617 A61F13/53713 A61F13/53717 A61F2013/15406 A61F2013/15447 A61F2013/530153 A61F2013/530182 A61F2013/53778 A61F2013/53791

European: A61F13/15M3 A61F13/537B2 A61F13/537B4 A61F13/537C2 A61F13/537D K61F13/15J8E K61F13/15J8H K61F13/15J8L K61F13/15J8P1 K61F13/15J8P2 K61F13/537E3 K61F13/537G K61F13/53M1B K61F13/53M3

US: 156/181 156/209 156/73.1 156/73.2 19/299 19/65T 28/282 428/156 604/358 604/365 604/366 604/367 604/378 604/379 604/379P 604/380 604/380S 604/383 604/383S 604/384 604/385.23

Family:

Publication number	Publication date	Application number	Application date
AR017799 AA	20011024	AR1998P106153	19981203
AT215803 E	20020415	AT19980960144T	19981203
AT218316 E	20020615	AT19980960143T	19981203
AT245014 E	20030815	AT19980948043T	19981007
AU199894701 A1	19990705	AU19980094701	19981007
AU199915812 A1	19990616	AU19990015812	19981203
AU199915813 A1	19990616	AU19990015813	19981203
AU739566 B2	20011018	AU19990015813	19981203
AU740026 B2	20011025	AU19980094701	19981007
AU750871 B2	20020801	AU19990015812	19981203
CA2312737 AA	20000602	CA19982312737	19981203
CA2312737 C	20080205	CA19982312737	19981203
CA2313046 AA	20000601	CA19982313046	19981007
CO5070620 A1	20010828	CO19980072242	19981203
CO5070630 A1	20010828	CO19980072235	19981203
CO5070631 A1	20010828	CO19980072241	19981203
DE69804847 D1	20020516	DE19986004847	19981203
DE69804847 T2	20021107	DE19986004847T	19981203
DE69805842 D1	20020711	DE19986005842	19981203
DE69805842 T2	20030313	DE19986005842T	19981203
DE69816476 D1	20030821	DE19986016476	19981007
DE69816476 T2	20040624	DE19986016476T	19981007

DE69838092 D1	20070830	DE19986038092	19981203
DE69838092 T2	20080410	DE19986038092T	19981203
DK1035817 T3	20021014	DK19980960143T	19981203
DK1035818 T3	20020715	DK19980960144T	19981203
DK1035820 T3	20031020	DK19980948043T	19981007
EP0937792 A1	19990825	EP19980850187	19981203
EP0937792 B1	20070718	EP19980850187	19981203
EP1035817 A2	20000920	EP19980960143	19981203
EP1035817 B1	20020605	EP19980960143	19981203
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EP1035818 B1	20020410	EP19980960144	19981203
EP1035820 A1	20000920	EP19980948043	19981007
EP1035820 B1	20030716	EP19980948043	19981007
ES2175829 T3	20021116	ES19980960144T	19981203
ES2178290 T3	20021216	ES19980960143T	19981203
GB2331937 A1	19990609	GB19980026657	19981203
GB9826657 A0	19990127	GB19980026657	19981203
JP11256462 A2	19990921	JP19980343848	19981203
JP2001524350 T2	20011204	JP20000522865T	19981203
JP2001524399 T2	20011204	JP20000522868T	19981203
JP2002508218 T2	20020319	JP20000538647T	19981007
JP4417455 B2	20100217	JP19980343848	19981203
KR20010024675 A	20010326	KR20007006047	20000602
KR20010032733 A	20010425	KR20007006022	20000602
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MY133076 A	20071031	MY19980005473	19981203
NZ504737 A	20021126	NZ19980504737	19981203
PE01592000 A1	20000223	PE19980001179	19981203
PL196459 B1	20080131	PL19980340905	19981203
PL340878 A1	20010312	PL19980340878	19981007
PL340905 A1	20010312	PL19980340905	19981203
PL341398 A1	20010409	PL19980341398	19981203
RU2000117282 A	20020627	RU20000117282	19981203
RU2000117283 A	20020627	RU20000117283	19981203
RU2000117285 A	20020627	RU20000117285	19981007
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RU2215508 C2	20031110	RU20000117282	19981203
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SE9704484 L	19990604	SE19970004484	19971203
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SE9802517 L	19990604	SE19980002517	19980713
TH39575 A	20000731	TH19981004659	19981203
TNSN98217 A1	20000613	TN1998SN00217	19981203

TNSN98218 A1	20000613	TN1998SN00218	19981203
TNSN98219 A1	20000613	TN1998SN00219	19981203
TR200001618 T2	20001023	TR20000001618T	19981203
TW413631 B	20001201	TW19980120079	19981203
TW493431 Y	20020701	TW20010213101U	19981203
US2002087136 AA	20020704	US19990328899	19990609
US6245961 BA	20010612	US19990328456	19990609
US6417427 BA	20020709	US19990328455	19990609
US6511566 BA	20030128	US19980204540	19981203
US6660902 BB	20031209	US19990328899	19990609
WO9927876 A1	19990610	WO1998SE02215	19981203
WO9927879 A2	19990610	WO1998SE02214	19981203
WO9927879 A3	19990729	WO1998SE02214	19981203
WO9930661 A1	19990624	WO1998SE01808	19981007
ZA9811074 A	19990603	ZA19980011074	19981203
ZA9811075 A	19990803	ZA19980011075	19981203
ZA9811076 A	19990607	ZA19980011076	19981203

Priority:

SE19970004484 19971203	SE19980002427 19980706	CO19980072241 19981203
SY19980183045 19981202	WO1998SE01808 19981007	SE19980002517 19980713
TN19980000219 19981203	ZA19980011075 19981203	GB19980026657 19981203
EC19980002769 19981203	ZA19980011076 19981203	PH19980003171 19981203
TN1998SN00219 19981203	WO1998SE02214 19981203	WO1998SE02215 19981203
CO19980011075 19981203	PH11998003167 19981203	

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): HANSSON ROY ; MOELNLYCKE AB ; ROENNBERG PETER ; SCA HYGIENE PROD AB ; ROXENDAL SOFIA ; SCA HYGIENE PRODUCTS AB ; SCA HYGINE PRODUCTS AB ; STEGER CHRISTINA ; WESSEL PETER ; WIDLUND URBAN

Assignee(s): RONNBERG PETER ; SCA HYGIENE PRODUCTS ABS ; SCA HYGIENE PRODUCTS AB GOETEBORG GOTENBURG ; SCA MOELNLYCKE AB ; SKA KHAJDZHIN PRODAKTS AB ; SCA HYGIENE PRODUCTS AB GOETEBORG

Inventor(s): (std): HANSSON ROY ; ROENNBERG PETER ; RONNBERG PETER ; ROXENDAL SOFIA ; STEGER CHRISTINA ; WESSEL PETER ; WIDLUND URBAN ; VIDLUND URBAN ; ROKSENDAL SOFIA ; RENNBERG PETER ; PETER WESSEL ; PETER RONNBERG ; PETER ROENNBERG ; NILSSON URBAN ; MANSISIDOR JOSE MARIA ; MANISIDOR JOSE MARIA ; KUSTRIMOVIC DRAGOLJUB ; KHANSSON ROJ ; KENT EDGREN ; JOSE MARIA MANSISIDOR ; EDGREN KENT ; DRAGOLJUB KUSTRIMOVIC ; CHRISTINA STEGER ; VESSEL PETER ; URBAN WIDLUND ; URBAN NILSSON ; STEGER KRISTINA ; SOFIA ROXENDAL ; ROY HANSSON

Inventor(s): ROKSENDAL' SOFIA ; VESSEL' PETER

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; FETHERSTONHAUGH AND CO; ERNESTO CAVELIER

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 HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

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

CPG: A61F13/494 A61F13/49406 A61F13/49466 A61F13/8405 A61K8/0208 A61L15/34 A61L15/40 A61K2800/75 A61Q19/00

Family:

Publication number	Publication date	Application number	Application date
CN1121241 C	20030917	CN19971081502	19971203
CN1251534 A	20000426	CN19971081502	19971203
CO4910110 A1	20000424	CO19970070822	19971203
CZ297044 B6	20060816	CZ19990001994	19971203
CZ9901994 A3	19991117	CZ19990001994	19971203
JP2002509457 T2	20020326	JP19980525776T	19971203
JP3768245 B2	20060419	JP19980525776T	19971203
MY120713 A	20051130	MY19970005797	19971203
TR9901797 T2	19991021	TR19990001797T	19971203
TW508232 B	20021101	TW19980100982	19980123

Priority:

US19960766386 19961203

US19970962310 19971031

US19970962312 19971031

Probable Assignee: PROCTER AND GAMBLE

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

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

Inventor(s): (std): EDWARD SCHULTE THOMAS ; EDWARD THOMAS ; ELDER GRETCHEN ; ELDER 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

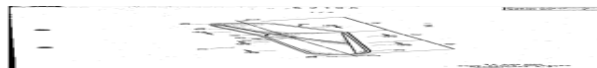
Inventor(s): VANRIJSWIJCK LAURA GRAVES SPALDING ; DONALD C ROE ; DONALD CARROLL ROE ; THOMAS EDWARD ; THOMAS EDWARD SCHULTE ; THOMS E SCHULTE ; GRETCHEN LOUISE ELDER ; LAURA G S VANRIJSWIJACK ; LAURA G S VANRIJSWIJACK ET AL ; LAURA GRAVES SPALDING VANRIJSWIJCK

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

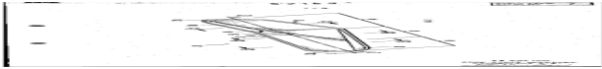
Inventor(s): ALOIS ARESKOUG ; STEFAN ALOIS WIERLACHER

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

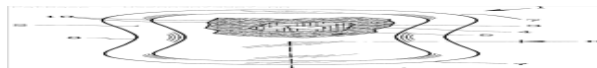
Inventor(s): ALOIS ARESKOUG ; STEFAN ALOIS WIERLACHER ; BRUCE WILLIAM LAVASH

Agent(s): CARLOS REINALDO OLARTE GARCIA

Title: FIBROUS MATERIAL LAYER, METHOD FOR ITS MANUFACTURE, AND **ABSORBENT ARTICLE** COMPRISING THE MATERIAL LAYER IN QUESTION

Abstract:

Source: US2003073967A Fibrous material layer intended to be incorporated in an **absorbent article**.



The layer (5) comprises at least two webs of tow **fibers** arranged on top of each other, which are bonded to each other into a laminate by means of a bonding pattern, and where one is corrugated and the other web is substantially smooth, wherein the corrugated web exhibits a more open structure in comparison to the smooth web. A method of manufacturing the layer (5) in question, in which method at least two separate webs (15a, b) of opened and into a layer spread-out tow are fed into a bonding station (20), which webs exhibit different web tensions and/or web speeds, and that the webs (15a, b) with maintained relative difference in web tension and/or web speed are bonded together in said bonding pattern (10) into a laminate.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/511 A61F13/538 A61F5/44 B23B31/08 B32B5/26 B32B7/04 D04H13/00 D04H3/04 D04H3/14 (Advanced/Invention); B23B31/08 (Advanced/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/49 A61F13/511 A61F13/538 A61F5/44 B23B31/08 B32B5/26 D04H3/14

CPC: A61F13/512 A61F13/537 A61F2013/53778 B32B5/26 B32B7/04 D04H3/04 D04H3/14 D04H13/00

European: A61F13/537 B32B5/26 B32B7/04 D04H13/00 D04H3/04 D04H3/14 K61F13/512 K61F13/537E3

US: 604/365 604/365P 604/378 604/378S 604/379 604/380 604/384 604/384S

Family:

Publication number	Publication date	Application number	Application date
AT385189 E	20080215	AT20010918064T	20010326
AU2001244934 AA	20011008	AU20010244934	20010326
AU200144934 A5	20011008	AU20010044934	20010326
DE60132663 D1	20080320	DE20016032663	20010326
DE60132663 T2	20090129	DE20016032663T	20010326
EP1274383 A1	20030115	EP20010918064	20010326
EP1274383 B1	20080130	EP20010918064	20010326
JP2003527987 T2	20030924	JP20010570216T	20010326
MXPA02008864 A1	20030210	MX2002PA08864	20010326
PL357775 A1	20040726	PL20010357775	20010326
RU2002128737 A	20040327	RU20020128737	20010326
SE200001067 A	20010928	SE20000001067D	20000327
SE200001067 A0	20000327	SE20000001067	20000327
SE200001067 L	20010928	SE20000001067	20000327
SE516036 C2	20011112	SE20000001067	20000327
SK200201339 A5	20030204	SK20020001339	20010326
US2003073967 AA	20030417	US20020255939	20020927
US6998512 BB	20060214	US20020255939	20020927
WO0172253 A1	20011004	WO2001SE00646	20010326

Priority:

SE20000001067 20000327 WO2001SE00646 20010326

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): JOHANSSON SVEN ERIK ; KROOK FREDRIK ; SCA HYGIENE PROD AB ; ALM LEIF ; BJOERNSTROEM LENA ; WAHLSTROEM JOHAN

Assignee(s): WAHLSTROM JOHAN ; BJORNSTROM LENA ; SCA HYGIENE PRODUCTS AB

Inventor(s): (std): JOHANSSON SVEN ERIK ; KROOK FREDERIK ; KROOK FREDRIK ;
BJOERNSTROEM LENA ; BJORNSTROM LENA ; ALM LEIF ; WAHLSTROEM JOHAN
; WAHLSTROM JOHAN

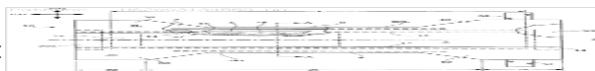
Inventor(s): BJ AND XD6 RNSTR AND XD6 M LENA ; FREDRIK KROOK ; JOHAN
WAHLSTROEM ; JOHAN WAHLSTROM ; LEIF ALM ; LENA BJOERNSTROEM ; LENA
BJORNSTROM ; SVEN ERIK JOHANSSON ; WAHLSTR AND XD6 M JOHAN

Agent(s): EGEROED LISBETH ET AL; BUCHANAN INGERSOL PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN
CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR
HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI 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: 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 A61F13/534 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 A61F13/534 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

CPC: A61F13/5323 A61F13/534 A61F13/539 A61F13/49017 A61F13/53418 A61F13/53427 A61F13/53436 A61F13/535 A61F13/537 A61F13/8405 A61F2013/49038 A61F2013/5315 Y10T156/1008 Y10T156/1015 Y10T156/1051 Y10T156/1798 Y10T156/1098 A61F13/15658 B32B5/30 A61F13/1565 Y10T442/659 Y10T442/674 Y10T442/699 Y10T442/60 A61F2013/530532 A61F2013/530554

European: A61F13/15M3F A61F13/15M3G A61F13/532B A61F13/534 A61F13/535 A61F13/539 B32B5/30 K61F13/49D2E K61F13/49D2J K61F13/531B K61F13/534B2 K61F13/534B4 K61F13/534B6 K61F13/537 K61F13/53Q2C K61F13/53Q2E1 K61F13/84B

US: 156/200 156/204 156/227 156/276 156/276S 156/285 156/285S 156/303 156/442.1 156/442.2 156/443 156/578 264/119 264/119S 264/517 264/518 425/363 425/363S 425/388 425/388S 425/403 425/403.1 425/405.1 425/470 425/504 425/504S 425/505 425/505P 425/80.1 425/801 425/82.1 425/83.1 442/327 442/327S 442/381 442/381S 442/394 442/394P 442/394S 442/417 442/417P 604/358 604/358P 604/367 604/367P 604/368 604/368P 604/378 604/378P 604/378S 604/385.28 604/385.280S 604/386 604/386S 604/387 604/387S

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
EP1474070 B1	20070919	EP20030701283	20030110
EP1610934 A2	20060104	EP20040758043	20040324

EP1610934 A4	20110907	EP20040758043	20040324
EP1613257 A2	20060111	EP20040759120	20040405
EP1811937 A1	20070801	EP20050705564	20050112
JP2005515020 T2	20050526	JP20030561470T	20030110
MX2007003549 A1	20070523	MX20070003549	20050926
MX2007003734 A1	20070423	MX20070003734	20050112
MXPA04006960 A1	20041126	MX2004PA06960	20030110
MXPA05010253 A1	20051214	MX2005PA10253	20040324
MXPA05010917 A1	20060531	MX2005PA10917	20040405
US2003134559 AA	20030717	US20020046279	20020116
US2003135178 AA	20030717	US20020050045	20020117
US2003212376 AA	20031113	US20030394588	20030324
US2004204697 AA	20041014	US20030411376	20030411
US2005101217 AA	20050512	US20040984867	20041110
US2005101929 AA	20050512	US20040951791	20040929
US2005107759 AA	20050519	US20040951792	20040929
US2005147711 AA	20050707	US20050072957	20050307
US2005215962 AA	20050929	US20050032802	20050111
US6832905 BB	20041221	US20020046279	20020116
US6923926 BB	20050802	US20030394588	20030324
US7232300 BB	20070619	US20050072957	20050307
WO03061524 A2	20030731	WO2003US00612	20030110
WO03061524 A3	20040715	WO2003US00612	20030110
WO04084766 A2	20041007	WO2004US08794	20040324
WO04084766 A3	20041229	WO2004US08794	20040324
WO04091427 A2	20041028	WO2004US10404	20040405
WO04091427 A3	20050915	WO2004US10404	20040405
WO06039188 A2	20060413	WO2005US34041	20050926
WO06039188 A3	20070614	WO2005US34041	20050926
WO06039191 A2	20060413	WO2005US34065	20050926
WO06039191 A3	20061221	WO2005US34065	20050926
WO06041507 A1	20060420	WO2005US00964	20050112

Priority:

US20020046279	20020116	US20020050045	20020117	WO2004US08794	20040324
US20030394588	20030324	US20030411376	20030411	WO2003US00612	20030110
US20040984867	20041110	US20050072957	20050307	US20040951792	20040929
US20040951791	20040929	WO2005US34041	20050926	US20050032802	20050111
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 HEALTHCARE 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 HELTHCARE RETAIL SERVICES AG ; HANSEN EBBA A ; JP MORGAN CHASE BANK NA

Inventor(s): (std): EGYED WALTER ; HANSEN EBBA A ; JOHN D LITVAY ; WALTER JOHN ; EBBA A 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 CASSELS AND GRAYDON LLP; CHRISTOPHER C CAMPBELL ESQUIRE HUNTON AND WILLIAMS; CHRISTOPHER C CAMPBELL ESQ HUNTON AND WILLIAMS; HUNTON AND WILLIAMS LLP, INTELLECTUAL PROPERTY DEPARTMENT; HUNTON AND WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT; MARK S LEONARDO ESQ BROWN RUDNICK BERLACK ISRAELS LLP; HUNTON AND 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 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 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: MULTIPLE LAYER **ABSORBENT ARTICLE****Abstract:**

Source: US2003225383A An **absorbent article** is provided including a fluid permeable body facing surface and an absorbent core having a body facing side. An absorbent pledget is adhered to the body facing side of the absorbent core and is disposed between the absorbent core and the body facing surface. The pledget has a greater structural stiffness and a reduced surface area relative to the absorbent core. The pledget is configured to fit a human anatomy. In another alternate embodiment, the **absorbent article** has a fluid permeable coverstock configured to engage a body surface and defining longitudinal sides. The coverstock includes a bi-component **fiber** having a polypropylene inner core and a polyethylene outer sheath. An absorbent core of the **absorbent article** has a body facing side, an opposing side and extends longitudinally along the **absorbent article**. The absorbent core has arcuate outer ends and includes wood pulp and superabsorbent polymer materials. An hourglass shaped absorbent pledget is disposed between the absorbent core and the coverstock. The pledget includes airlaid material adhered to the body facing side of the absorbent core. The pledget further includes a three dimensional apertured acquisition film mounted to the airlaid material which engages the coverstock. The pledget has a greater structural stiffness and reduced surface area relative to the absorbent core. The absorbent core is configured to fold about the hourglass shape of the pledget and resist undesired deformity of the **absorbent article**. The coverstock includes adhesive coated elastic members disposed adjacent the longitudinal sides. The longitudinal sides are folded about a poly laminate backsheet to enclose the absorbent core and pledget.

**Classifications:**

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49 A61F13/511 A61F13/53 A61F13/539 A61F5/44 (Advanced/Invention);
A61F13/15 A61F5/44 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/472 A61F13/49 A61F13/511 A61F13/53 A61F13/539 A61F5/44

CPC: A61F13/535 A61F13/4702 A61F2013/15357 A61F2013/49074 A61F2013/53463 A61F2013/53782

European: A61F13/535 K61F13/15E2D1 K61F13/15E2H K61F13/15J8C K61F13/47A K61F13/49H4 K61F13/534E K61F13/537E4

US: 604/367 604/367P 604/378 604/380 604/385.101 604/385.17 604/385.21

Family:

Publication number	Publication date	Application number	Application date
AU2003243322 AA	20031212	AU20030243322	20030528
CA2487053 AA	20041123	CA20032487053	20030528
CA2487053 C	20110215	CA20032487053	20030528
EP1507499 A1	20050223	EP20030755515	20030528
EP1507499 B1	20130424	EP20030755515	20030528
JP2005527299 T2	20050915	JP20040506711T	20030528
JP4273179 B2	20090603	JP20040506711T	20030528
MXPA04011884 A1	20060210	MX2004PA11884	20030528
US2003225383 AA	20031204	US20020156598	20020528
US7166094 BB	20070123	US20020156598	20020528
WO03099183 A1	20031204	WO2003US16682	20030528

Priority:

US20020156598 20020528 WO2003US16682 20030528

Probable Assignee: FIRST QUALITY RETAIL SERVICES LLC

Assignee(s): (std): COLE ROBERT THEODORE ; FIRST QUALITY RETAIL SERVICES LLC ; GLAUG FRANK S ; HOOD RYAN K ; TYCO HEALTHCARE RETAIL SERV AG ; TYCO HEALTHCARE RETAIL SERVICE ; TYCO HEALTHCARE RETAIL SERVICES AG ; TYCON HEALTHCARE RETAIL SERVIC ; TYCON HEALTHCARE RETAIL SERVICES AG

Assignee(s): TYCO HEALTHCARE RETIAL SERVICES AG ; JP MORGAN CHASE BANK NA ;

JPMORGAN CHASE NA ; TYCO HEALTHCARE RETAIL GROUP INC

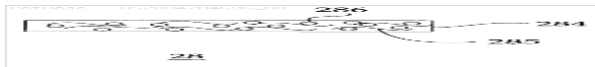
Inventor(s): (std): COLE ROBERT THEODORE ; FRANK S GLAUG ; GLAUG FRANK S ; HOOD RYAN K
; ROBERT THEODORE COLE ; RYAN K HOOD

Agent(s): RIDOUT AND MAYBEE LLP; FROHWITTER BERNHARD

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
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GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC
MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE
SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM
ZW

Title: DISPOSABLE ARTICLES USING HIGH COLUMN AUL SUPERABSORBENTS**Abstract:**

Source: US2004204696A The present invention relates generally to an absorbent composite for an **absorbent article**, and more particularly to an absorbent composite comprising fibrous material and superabsorbent material having a Column Absorbency Under Load (CAUL) above 10 g/g. Such an absorbent composite provides a superabsorbent material having superior AUL and permeability, thereby providing improved absorption and rewetting properties. An **absorbent article** that contains such a composite provides improved ability to absorb and retain fluids, thus preventing excessive rewetting and leakage and making the article more comfortable to wear.

**Classifications:**

International (IPC 8-9): A61B17/08 A61D1/00 A61F13/00 A61F13/06 A61F13/15 A61F13/20 A61F13/53 A61F13/534 A61L15/60 (Advanced/Invention);
A61B17/03 A61D1/00 A61F13/00 A61F13/06 A61F13/15 A61F13/20 (Core/Invention);
A61F (Subclass/Invention)

International (IPC 1-7): A61B17/08 A61D1/00 A61F13/00 A61F13/06 A61F13/15 A61F13/20

CPC: A61F13/15203 A61F13/15634 A61F13/15658 A61F13/534 A61F2013/530481
A61F2013/530744

European: A61F13/15J A61F13/15M3C A61F13/15M3G A61F13/534 K61F13/53Q K61F13/53Q8B1

US: 604/367 604/367P 604/370 604/374 604/375 604/378 604/379 604/385.101 604/387
604/387S

Family:

Publication number	Publication date	Application number	Application date
CA2521697 AA	20051006	CA20042521697	20040408
EP1613255 A2	20060111	EP20040759176	20040408
US2004204696 AA	20041014	US20030409605	20030409
US7838721 BB	20101123	US20030409605	20030409
WO04091429 A2	20041028	WO2004US10605	20040408
WO04091429 A3	20051110	WO2004US10605	20040408

Priority:

US20030409605 20030409 WO2004US10605 20040408

Probable Assignee: PARAGON TRADE BRANDS INC

Assignee(s): (std): CHEN DENNIS ; PARAGON TRADE BRANDS LLC ; TYCO HEALTHCARE RETAIL SERVICE ; TYCO HEALTHCARE RETAIL SERV AG

Assignee(s): TYCO HEALTHCARE RETAIL SERVICES AG ; TYCO HEALTHCARE RETAIL GROUP ; JP MORGAN CHASE BANK NA ; JPMORGAN CHASE NA ; PARAGON TRADE BRANDS INC

Inventor(s): (std): CHEN DENNIS

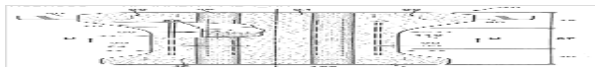
Agent(s): PIASETZKI AND NENNIGER LLP; AMSTER ROTHSTEIN AND EBENSTEIN LLP

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 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 PROVIDING TEMPERATURE INSENSITIVE LIQUID HANDLING**Abstract:**

Source: US2005033252A The present invention relates

to **absorbent articles**, such as diapers and sanitary napkins, and acquisition members useful for such articles. More specifically, the invention relates to an acquisition member comprising a multitude of **fibers** and a latex binder, the liquid acquisition member having a void volume of at least 7 cubic centimeter per gram in the temperature range from 20 degrees centigrade to 40 degrees centigrade, the binder comprising a dispersion of a polymer substance in an essentially aqueous medium, the polymer substance being capable of forming a film, said film having a tan delta value, as defined herein, at 20 degrees centigrade and at 40 degrees centigrade, wherein the tan delta value at 40 degrees centigrade is not greater than said tan delta value at 20 degrees centigrade

**Classifications:**

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61F13/49 A61F13/53 A61F13/537 A61F13/539 A61L15/16 A61L15/18 A61L15/22 A61L15/30 A61L15/60 B32B3/00 (Advanced/Invention); A61F13/15 A61F13/537 A61L15/16 A61L15/18 A61L15/22 A61L15/30 (Advanced/Non-invention); A61F13/00 A61F13/15 A61F13/20 A61L15/16 B32B3/00 (Core/Invention); A61F (Subclass/Invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/53 A61F13/537

CPG: A61F13/53747 A61F2013/15406 A61F13/537 Y10T442/20 Y10T442/2369 Y10T442/2738 Y10T442/608 Y10T442/627 Y10T442/637 A61F13/5376 A61F2013/15373

European: A61F13/537 A61F13/537C2 A61F13/537D K61F13/15J8D1 K61F13/15J8E

US: 442/104 442/149 442/334 442/352 442/361 442/59 604/366 604/366P 604/367 604/367P 604/368 604/370 604/370S 604/374 604/374P 604/378 604/378S 604/384 604/385.01 604/385.101 604/385.23 604/385.230S 604/386 604/386S 604/396 604/396S

Family:

Publication number	Publication date	Application number	Application date
AR045231 AA	20051019	AR2004P102847	20040809
AR045232 AA	20051019	AR2004P102848	20040809
AU2004264334 AA	20050224	AU20040264334	20040805
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CN1832717 B	20101013	CN200480022649	20040805

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JP2007500047 T2	20070111	JP20060522142T	20040805
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US2005033253 AA	20050210	US20040913243	20040806
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WO05016207 A1	20050224	WO2004US25275	20040805
WO05016208 A1	20050224	WO2004US25279	20040805
ZA200601049 A	20070425	ZA20060001049	20060206
ZA200601050 A	20070530	ZA20060001050	20060206
ZA200601051 A	20070725	ZA20060001051	20060206

Priority:

EP20030018027	20030807	EP20030023344	20030807	EP20030023344	20031015
US20040913243	20040806	WO2004US25279	20040805	WO2004US24895	20040802
WO2004US25275	20040805	EP20030023345	20031015	US20040912991	20040806
US20100850801	20100805	US20060582187	20061017		

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MANUELA ; VAN GANSEWINKEL OLAF

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CHRISTOFER VAN GANSEWINKEL ; FUCHS CHRISTOPHER ; SCHENIDER
MANUELA

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; DIMOCK STRATTON
LLP; Borbach Markus; BORBACH MARKUS; PROCTER AND GAMBLE CO
INTELLECTUAL PROPERTY DIVISION; THE PROCTER AND GAMBLE COMPANY,
INTELLECTUAL PROPERTY DIVISION; THE PROCTER AND GAMBLE
COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO
GLOBAL LEGAL DEPARTMENT IP; THIBAUT; GEORGE H; JAY A; JOHN G; ERIC
T; KATHLEEN Y

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

Title: NONWOVEN MATERIALS COMPRISING LOW DENSITY FIBERS AND ABSORBENT ARTICLES
COMPRISING SUCH FIBERS

Abstract:

Source: US2005090173A Low density fibers and nonwoven materials comprising such fibers suitable for use in absorbent articles are disclosed. The nonwoven materials are in the form of a fibrous web and the fibers are made up of struts which define open and closed cells. The fibers have a fiber density that is less than the density of the polymer composition that is extruded to form the fibers. Depending on their final use in an absorbent article, the material can be either hydrophilic or hydrophobic. Hydrophilic materials, are suitable for topsheets and core components and have desirable fluid handling properties such as a liquid strike-through time of less than about 10 seconds, an absorptive capacity greater than about 4 grams per gram and a medium capillary desorption height of less than about 150 cm. The preferred materials for backsheets and cuffs are hydrophobic and have a repellency greater than 0 cm.

Classifications:

International (IPC 8-9): D01D5/11 D04H1/42 D04H1/72 (Advanced/Invention)

International (IPC 1-7): B32B5/18 B32B5/24 B32B7/02 D01D5/11 D04H1/00 D04H1/42 D04H1/72

CPC: D04H1/72 D01D5/11 Y10T428/24992 Y10T442/463 Y10T442/609 Y10T442/61 Y10T442/613 Y10T442/647 Y10T442/659 Y10T442/674 D04H1/42

European: D01D5/11 D04H1/42 D04H1/72

US: 428/218 428/218S 442/314 442/314S 442/335 442/335S 442/336 442/336S 442/339 442/339P 442/370 442/370S 442/381 442/381S 442/394 442/394S

Family:

Publication number	Publication date	Application number	Application date
US2005090173 AA	20050428	US20040954039	20040929
WO05040476 A1	20050506	WO2004US35299	20041020

Priority:

US20030514343P 20031024 US20040954039 20040929

Probable Assignee: PROCTER AND GAMBLE CO

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Inventor(s): (std): WEISMAN PAUL T ; WEISMAN PAUL THOMAS

Inventor(s): WEISMAN PAUL

Agent(s): 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 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 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: PROCESS FOR MAKING AN EMBOSSED WEB

Abstract: Source: US2010230857A A process for making an embossed web. A precursor web is provided between a forming structure and a

compliant substrate. The forming structure has a plurality of discrete apertures or depressions. Pressure is provided between the compliant substrate and the forming structure to force the precursor web into the apertures or depressions of forming structure to form the embossed web. The resulting embossed web has a plurality of discrete extended elements.



Classifications:

International (IPC 8-9): A47L13/16 A61C13/01 A61F13/15 A61F13/472 A61F13/49 A61F13/511 A61F13/512 A61F13/514 A61F13/53 A61F13/534 A61F13/551 B26F1/24 B26F1/26 B28B11/08 B29C B29C43/24 B29C43/56 B29C55/18 B29C59/00 B29C59/02 B29C59/04 B29C63/02 B29C65/00 B29C65/18 B29C65/56 B29C65/66 B29C65/76 B29D7/01 B31B39/14 B31F1/07 B32B B32B1/00 B32B27/06 B32B27/08 B32B27/12 B32B27/20 B32B27/32 B32B3/00 B32B3/10 B32B3/24 B32B3/26 B32B3/28 B32B3/30 B32B37/06 B32B38/06 B32B5/02 B32B5/06 B32B5/16 B32B5/24 B32B5/26 B32B7/00 B32B7/02 B32B7/04 B32B7/06 B32B7/08 B44C1/24 B44F1/08 B65B51/04 B65D30/02 B65D75/00 B65D75/04 B65F1/00 C08J5/18 D04H1/72 D04H1/76 D04H11/00 D04H11/08 D04H13/00 D04H3/07 D06C3/00 D06C3/06 D21H27/02 D21H27/38 G02B5/30 (Advanced/Invention); A61F13/15 A61F13/538 B29C59/04 B29C59/06 B29C65/70 B29C65/72 B29L31/48 B29L9/00 B32B27/32 B32B37/00 B32B37/10 B32B37/30 B32B38/12 B65D85/00 (Advanced/Non-invention); A61F13/15 B26F1/00 B28B11/08 B29C43/32 B29C55/18 B29C59/02 B29C59/04 B29C63/02 B29C65/56 B31B39/00 B32B1/00 B32B27/32 B32B3/00 B32B3/10 B32B3/28 B32B3/30 (Core/Invention); B29C B32B (Subclass/Invention)

International (IPC 1-7): B32B3/28

CPC: B29C59/02 B29D7/01 B32B3/263 B29C59/043 B29C43/24 B29C66/91221 A61F2013/5386 D04H3/07 D04H11/08 B29C66/9392 B32B9/28 B29C66/91431 B29C66/91218 B29C66/9141 Y10T428/1334 Y10T428/24628 Y10T428/24901 B29C66/934 A61F13/15731 B29C65/18 B29C66/71 B29C66/81435 B29C66/83511 B29C66/83513 B29C66/91421 B29L2009/00 B29L2031/4878 B31F1/07 B32B3/30 B32B2307/726 B32B2307/728 B32B2432/00 B32B2439/00 B32B2555/00 B29C66/939 B29C66/949 B44C1/24 B29C66/73152 A61F13/51104 A61F13/5121 B26F1/24 B29C55/18 B29C66/7294 B29C66/81457 B29C66/8266 B29C66/82661 B29C66/83411 B29C66/83415 B31F2201/0712 B32B5/022 B32B5/06 B32B7/045 B32B7/08 B32B27/12 B32B37/0084 B32B2037/1072 B65D75/00 B65D85/00 B29K2023/06 B29K2023/12 B29C65/70 B29C65/72 B29C65/76 B32B7/04 B26F1/26 B29C59/022 B29C59/04 B29C59/06 B29C65/56 B29C66/21 B29C66/45 B29C66/729 B29C66/81264 B29C66/81423 B29C66/81433 B29C66/83413 B29C66/9121 B29C66/91216 B29C66/91411 B29C66/9161 B29C66/919 B29C66/91935 B29K2995/007 B29K2995/0089 B31F2201/0733 B31F2201/0738 B32B3/266 B32B3/28 B32B7/02 B32B27/20 B32B38/06 B32B38/12 B32B2037/0092 B32B2323/04 B32B2323/10 Y10T428/24479 B29C66/81241 B29C66/727 B29C66/43 Y10T428/24612 B29C65/7894 B29C65/7891 B29C66/8322 Y10T428/24975 B32B5/18 B32B5/22 B32B5/24 B32B5/26 B32B9/02 B32B9/04 B32B15/04 B32B15/20 B32B23/04 B32B27/06 B32B27/18 B32B27/22 B32B27/306 B32B27/308 B32B27/32 B32B27/322 B32B27/34 B32B27/36 B32B2262/02 B32B2262/0253 B32B2262/062 B32B2262/14 B32B2270/00 B32B2307/10 B32B2307/30 B32B2307/4026 B32B2307/50 B32B2307/546 B32B2307/72 B32B2553/00 B32B27/08 B32B23/00 B32B27/302 B32B2262/04 B32B2307/51 B32B2439/06 B32B2439/46 B32B2439/70 B32B2457/00 B32B5/08 B32B29/002 B32B2264/10 B32B2307/514 B32B2307/54 B32B2581/00 D21H27/02 Y10T428/24273 Y10T428/24281 Y10T428/24636 B29C66/73343 A61F13/15739 D21H27/38 Y10T156/1039 Y10T428/24289 Y10T428/24496 Y10T428/24521 Y10T428/24545 D04H1/76 A61F13/15707

European: A61F13/15M6 A61F13/15M6C A61F13/15M6D A61F13/511A A61F13/512A B26F1/24 B26F1/26 B29C55/18 B29C59/02C B29C65/18 B29C65/56 B29C66/21 B29C66/45 B29C66/7294 B29C66/81433 B29C66/81435 B29C66/81457 B29C66/8266 B29C66/82661 B29C66/83411 B29C66/83413 B29C66/83415 B29C66/83511 B29C66/83513 B31F1/07 B32B27/12 B32B27/20 B32B3/26B B32B3/28 B32B3/30 B32B38/06 B32B5/02A B32B5/06 B32B7/02 B32B7/04A B32B7/08 B44C1/24 L26F1/24 L29C59/02C L29C59/04 L29C59/06 L29C66/71 L29C66/82661 L29C66/83513 L29C66/919 L29C66/91935 L29C66/939 L29C66/949 L29L31/48E2 L29L9/00 L31F201/07C2B L31F201/07C2D3G L31F201/07C2D3J L32B323/04 L32B323/10 L32B37/00D2 L32B37/00E L32B37/10G L32B38/12

US: 156/219 156/219S 162/133 206/524.6 206/524.600S 264/154 264/155 264/156 264/175
 264/175S 264/273 264/284 264/284P 264/285 264/286 264/293 264/293P 264/503 264/504
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 428/132S 428/133 428/133P 428/156 428/156P 428/156S 428/158 428/158S 428/161 428/161S
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Family:

Publication number	Publication date	Application number	Application date
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AR075830 AA	20110427	AR2010P100788	20100312
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Priority:

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Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): GILBERTSON GARY WAYNE ; GRAY BRIAN FRANCIS ; PROCTER AND GAMBLE ; GROSS SARAH BETH ; MUHS KEVIN GERARD ; HAMMONS JOHN LEE ; ORR JILL MARLENE ; LAKE KIRK WALLACE ; MULLANE TIMOTHY IAN ; YOUNG ROGER DALE ; STONE KEITH JOSEPH ; VAN VALKENBURGH CURTIS HUNTER ; YOUNG ROGER D ; VAN VALKENBURG CURTIS HUNTER ; STRUBE JOHN BRIAN ; COE RICHARD GEORGE ; CURRO JOHN JOSEPH

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Inventor(s): (std): DALE YOUNG ROGER ; EOUNG ROGER D ; FRANCIS GRAY BRIAN ; GEORGE COE RICHARD ; GERARD MUHS KEVIN ; GILBERTSON GARY WAYNE ; GRAY BRIAN FRANCIS ; GROSS SARA BETH ; GROSS SARAH BETH ; HAMMONS JOHN LEE ; HUNTER VALKENBURGH CURTIS VAN ; BETH GROSS SARAH ; COE RICHARD GEORGE ; CURRO JOHN JOSEPH ; JOSEPH STONE KEITH ; KEITH JOSEPH STONE ; LAKE KIRK WALLACE ; MUHS KEVIN GERARD ; MULLANE TIMOTHY IAN ; ORR JILL MARLENE ; STONE KEITH JOSEPH ; STRUBE JOHN BRIAN ; VALKENBURGH CURTIS HUNTER VAN ; VAN VALKENBURG CURTIS HUNTER ; VAN VALKENBURGH CURTIS HUNTER ; VANVALKENBURGH CURTIS HUNTER ; YOUNG ROGER D ; YOUNG ROGER DALE

Inventor(s): YOUNG ROGER DALEUS ; VAN VALKENBURGH CURTIS ; TIMOTHY IAN MULLANE ; STONE KEITH JOSEPH YOUNG ROGER DALE ; STONE KEITH JOSEPHUS ; STONE KELTH JOSEPH YOUNG ROGER D ; RICHARD GEORGE COE ; ROGER D

YOUNG ; ROGER DALE YOUNG ; SARAH BETH GROSS ; KEVIN GERARD MUHS ;
KIRK WALLACE LAKE ; CURTIS HUNTER VAN VALKENBURGH ; BRIAN FRANCIS
GRAY ; JILL MARLENE ORR ; JOHN BRIAN STRUBE ; JOHN JOSEPH CURRO ;
JOHN LEE HAMMONS

Agent(s):

PHILLIPS ORMONDE FITZPATRICK; MBM INTELLECTUAL PROPERTY LAW LLP;
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ALBERTO; NAGAI HIROSHI; TANI AND ABE PC; THE PROCTER AND GAMBLE
COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO
GLOBAL LEGAL DEPARTMENT IP; AMANDA T; JASON J; ANDREW J; JEFFREY V;
THE PROCTER AND GAMBLE COMPANY

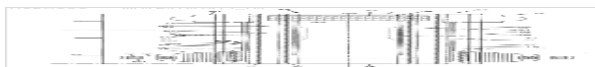
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VC VN ZA ZM ZW

Title: HOT MELT ADHESIVE

Abstract: Source: US2014079919A A hot melt adhesive material and articles made using the hot melt adhesive to assemble structures in an

article. The adhesive material typically is manufactured by blending amorphous polymer with a heterophase polymer having crystallinity into an adhesive composition.



Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/515 A61F13/539 A61F13/84 A61L15/58 A61L15/60 B32B23/08 B32B27/06 B32B27/12 B32B7/12 C08L23/00 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/18 C08L53/00 C09J123/00 C09J123/10 C09J123/14 C09J123/18 C09J123/20 C09J123/22 C09J153/00 C09J7/04 (Advanced/Invention)

CPIC: A61F13/15699 C08L23/142 C08L23/20 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/18 C08L2205/02 C08L2205/03 C08L2207/02 C09J123/18 C09J123/20 Y10T428/24802 Y10T428/3188 Y10T428/31909 Y10T428/31913 Y10T428/31924 Y10T428/31938 Y10T442/659 Y10T442/678 C09J123/142 A61F13/539 A61F2013/5395 B32B7/12 B32B23/08 B32B27/06 C09J7/043 C09J123/14 B32B27/12 B32B2535/00 A61L15/58 A61L15/585 A61L15/60 A61F13/84 A61F2013/53908 C08L53/00 C09J123/22 C09J123/10 A61F13/515 A61F13/49019 A61F13/4906

US: 156/327 428/195.1 428/507 428/515 428/516 428/519 428/523 442/381 442/398 524/505 525/240 604/365 604/366

Family:

Publication number	Publication date	Application number	Application date
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EP2898036 A1	20150729	EP20130771303	20130919
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Priority:

US20120702950P 20120919	US20130836385 20130315	US20140302725 20140612
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Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): IFS IND INC ; PROCTER AND GAMBLE

Assignee(s): IFS IND ; PROCTER AND GAMBLE CO

Inventor(s): (std): BUNNELLE WILLIAM L ; TURNER ROBERT HAINES

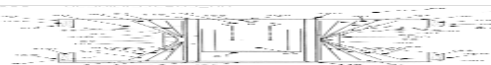
Agent(s): WRAYS; POTTER CLARKSON LLP; PAULY DEVRIES SMITH AND DEFFNER LLC;

KATHLEEN Y; FISH AND RICHARDSON PC; DIPIETRO MARK J; KREBS JAY A ET
AL

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

Abstract: Source: US2014276503A A disposable absorbent undergarment is disclosed. It includes an absorbent assembly comprising a core formed



of a synthetic tow or of synthetic nonwoven layers and having first section comprising a slow acting but high absorption capacity SAP and a second section comprising a fast acting but lower absorption capacity SAP, all of which is wrapped in a wrapper to hold the SAP in place. The absorbent assembly may be quilted and corrugated. The undergarment also includes releasably securable fasteners to enable it to be readily removed and a suspension system to ensure that the garment fits properly and doesn't leak even when holding a large amount of exudate. Odor removal/masking and treatment features may be provided. In addition the undergarment may include a wetness indicator.

Classifications:

International (IPC 8-9): A61F13/42 A61F13/49 A61F13/511 A61F13/53 A61F13/531 A61F13/534 A61F13/535 A61F13/537 A61F13/538 A61F13/58 (Advanced/Invention)

CPC: A61F13/538 A61F13/42 A61F13/49017 A61F13/58 A61F13/5376 A61F13/51113 A61F13/534 A61F13/53436 A61F13/535 A61F13/537 A61F13/53747 A61F13/53752 A61F13/53756 A61F2013/424 A61F2013/530226 A61F2013/530233 A61F2013/53024 A61F2013/530306 A61F2013/530489 A61F2013/53051 A61F2013/530518 A61F2013/530547 A61F2013/530715 A61F2013/530722 A61F2013/5315 A61F2013/53445 A61F2013/53472

US: 604/360 604/361 604/367 604/385.25 604/389

Family:

Publication number	Publication date	Application number	Application date
CA2906518 AA	20150914	CA20142906518	20140313
EP2968032 A2	20160120	EP20140727273	20140313
US2014276503 AA	20140918	US20140204616	20140311
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Priority:

US20130792004P 20130315 US20140204616 20140311 WO2014US25963 20140313

Probable Assignee: ADVANCED ABSORBENT TECHNOLOGIES LLC

Assignee(s): (std): ADVANCED ABSORBENT TECHNOLOGIES LLC ; HOWARD JOSEPH ; SHELDON DONALD A ; TERENCEZONI WILLIAM

Inventor(s): (std): HOWARD JOSEPH ; SHELDON DONALD A ; TERENCEZONI WILLIAM

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; SCHWARZ U BALDUS PATENTANWALTE; STEIN BARRY 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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ARTICLE WITH TACKIFIER-FREE ADHESIVE

Abstract:

Source: US2015173958A Disposable **absorbent**

articles assembled from a collection of components

using an adhesive consisting essentially of an amorphous polyolefin composition comprising more than 40 percent 1-butene and a second amorphous polymer comprising at least one butane monomer, the polymer having a molecular weight (MWn) of at least 1000, wherein the polymer is compatible with the polyolefin.



Classifications:

International (IPC 8-9): A61F13/15 A61L15/24 A61L15/58 B32B23/00 B32B7/12 C09J123/20 C09J123/22 C09J5/06 (Advanced/Invention)

CPC: A61F13/15699 C09J5/06 C09J123/22 A61F2013/15569 A61L15/585 C09J123/20 B32B7/12 B32B23/00 C09J2201/61 A61L2300/802 B32B2250/02 B32B2555/02 C08L2205/025 C08L2207/324 A61F13/15203 A61L15/24 Y10T428/3188 Y10T428/31938 A61L15/42

US: 156/334 428/507 428/523 525/191 604/365 604/366

Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20130918434P 20131219
US20140574701 20141218

US20140302745 20140612

US20140302736 20140612

Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): IFS IND INC ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BUNNELLE WILLIAM L ; TURNER ROBERT HAINES

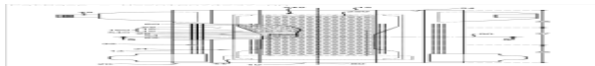
Agent(s): GUFFEY TIMOTHY B; DIPIETRO MARK

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 is 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

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20140049383P	20140912	US20140049379P	20140912	US20140049376P	20140912
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US20150210057P	20150826	US20150210005P	20150826	US20150210020P	20150826
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US20150844037	20150903	US20150844256	20150903	US20150844269	20150903
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US20150844613	20150903	US20150844043	20150903	US20150844047	20150903
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US20150844523	20150903	US20150844457	20150903	US20150844499	20150903

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN 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

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-141070						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)						
Palabras clave utilizadas		acquisition layer, absorbent article, nonwoven web, thickness, fibrous web, diameter of the fibers to "article absorbent", acquisition zone, caliber.				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		A61F13/537; B32B27/02; D04H3/00				
BASES DE DATOS CONSULTADAS.						
ESPACENET		Patentscope		Patbase		Espatentes
USPTO		Sciencedirect		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
EPO	09/06/2015	Absorbent article WO9927879	1-18	Novedad		X
		Absorbent product GB2331937	1-18	Novedad		X
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Stretchable spun bonded nonwoven web and method US5296289						
Absorbent with half section of gelling material US5873867						
Absorbent articles having soft, strong nonwoven component US5626571						
Absorbent components having a sustained acquisition rate capability upon absorbing multiple discharges of aqueous body fluids US6372952						
Absorbent article US2010280479						
garment having a fluid drainage layer US2010292664						
Absorbent members for body fluids having good wet integrity and relatively high concentrations of hydrogel-forming absorbent polymer US5599335						
Absorbent article with acquisition zone WO9747263						
Insitube-formed absorbent core structures WO2006099113						
Nonwoven web material with spunbond layer having absorbency and softness US 20060084344						
Packaging cover US 5932322						
Garment having a fluid drainage layer US 20100292664						
Absorbent composite article having fluid acquisition sub-layer US 5728081						
Method of making absorbent structures with encapsulated superabsorbent material EP 1700586						
Absorptive article JP2000316902						
Absorbing goods JP2003260081						
Observaciones						
Fecha del reporte de búsqueda:		25/04/2016				

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US5626571 (A)

Bibliographic data: US5626571 (A) — 1997-05-06

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Absorbent articles having soft, strong nonwoven component

Page bookmark US5626571 (A) — Absorbent articles having soft, strong nonwoven component

Inventor(s) YOUNG TERRILL A (US) DOBRIN GEORGE C (US) 2

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Classification: international: A61F13/00; A61F13/02; B23D22/04; D04H1/00; (IPC1-7: A61F13/00; A61F13/02; B23D22/04; D04H1/00) cooperative: A61F13/00; B23D22/04; D04H1/00; D04H1/02; A61F13/02; B23D22/04; D04H1/00

Application number: US1995055411 19951130

Priority number(s): US1995055411 19951130

Also published as: US5626571 (A) D 069006579 (T) D 9324231 (B2) D 61763499 (A) + more

Abstract of US5626571 (A)

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A nonwoven that is exceptionally soft yet sufficiently strong for use in absorbent articles is provided. The soft strong nonwoven includes fibers comprising polyethylene, at least a portion of which are consolidated. The soft strong nonwoven has a cross machine direction tensile strength of at least about 300 g/m² and a cross machine direction elongation at break of at least about 40%. The soft strong nonwoven is preferably formed by mechanically stretching or stretching a base nonwoven in the cross machine direction. The preferred base nonwoven includes a cross machine direction elongation of at least about 10% and a cross machine direction elongation at break of at least about 10%. The resulting permanently stretched, soft



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US6372952 (B1)

Bibliographic data: US6372952 (B1) — 2002-04-16

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Absorbent components having a sustained acquisition rate capability upon absorbing multiple discharges of aqueous body fluids

Page bookmark US6372952 (B1) — Absorbent components having a sustained acquisition rate capability upon absorbing multiple discharges of aqueous body fluids

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Applicant(s) PROCTER & GAMBLE (US) 2

Classification: international: A61F13/00; A61F13/02; A61F13/04; (IPC1-7: A61F13/00; A61F13/02; A61F13/04) cooperative: A61F13/00; A61F13/02; A61F13/04; A61F13/02; A61F13/04; A61F13/02; A61F13/04

Application number: US1999021930 19990222

Priority number(s): US1999021930 19990222

Also published as: US6372952 (B1) D 90074559 (A1) D 759801862 (T) D 759801862 (T) + more

Abstract of US6372952 (B1)

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The present invention relates to one aspect to absorbent articles that maintain or increase fluid acquisition rate when subjected to successive fluid discharges. In another aspect the invention relates to an absorbent article useful for absorbing discharges of aqueous body fluids which have a fluid reservoir disposed in the backsheet and an absorbent core, the absorbent core including at least one upper absorbent component and a lower absorbent component, with the backsheet adjacent to the upper absorbent component.



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US2010280479 (A1)

Claims: US2010280479 (A1) — 2010-11-04

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ABSORBENT ARTICLE

Claims of US2010280479 (A1)

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D 616291847 (A1) D 65248817 (A1)

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Original claims **Claims line**

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1. An absorbent article comprising:
a topwoven layer;
a bottomwoven layer;
a nonwoven layer disposed between the topwoven layer and the bottomwoven layer;
an acquisition layer for collecting and distributing fluid;
a bottom core for absorbing fluid; and
a top core for absorbing fluid;
wherein the acquisition layer, the top core and the bottom core being arranged between the topwoven and the bottomwoven, wherein the acquisition layer is arranged between the topwoven and the bottomwoven and the top core and the bottom core are arranged between the topwoven and the bottomwoven, wherein the acquisition layer extends along a longitudinal axis from its front end towards its rear end, the article further having a transverse axis orthogonal to the longitudinal axis, the article having longitudinal side edges extending along the longitudinal axis, wherein the acquisition layer is arranged adjacent to at least a portion of each longitudinal side edge, each side edge having a tension in a direction along the longitudinal side edge
wherein the article has a distance or a transverse direction parallel to the transverse axis, between one of the longitudinal side edges

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