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SUPERINTENDENCIA Y COMERCIO

Radicación : 01030201 00000001

Folios: 2

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Trámite : 002 PATENTES D 1 REGISTRO/ 538 PETICION

Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

**SEÑORES
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISIÓN DE NUEVAS CREACIONES
MINISTERIO DE DESARROLLO ECONOMICO**

**REF.: SOLICITUD DE REGISTRO DE PATENTE
EXPEDIENTE No : 01030201 ✓
PATENTE : ARTICULO ABSORBENTE DESECHABLE CON
SISTEMA PARA DESECHARLO
SOLICITANTE : GRUPO P.I. MABE, S.A. DE C.V.
FECHA SOLICITUD : ABRIL 18, 2001**

**DILIA RODRÍGUEZ D'ALEMAN, en mi condición de apoderada de la Sociedad
solicitante, por el presente escrito atentamente solicito a Usted que habiéndose
surtido la publicación de la presente solicitud, en la Gaceta de la Propiedad
Industrial N°.506 de fecha 30 de Julio de 2001, se proceda con el estudio de
Fondo.**

Para tal fin me permito anexar la tasa correspondiente.

Agradezco continuar con el presente trámite.

Señor Jefe,


**DILIA RODRÍGUEZ D'ALEMAN
LCD.zmc**

P-415



Industria y Comercio
SUPERINTENDENCIA

NIT : 900176059-2

RECIBO OFICIAL DE CAJA : 01 - 77,578
FECHA : DICIEMBRE 11 DE 2001

SUPERINTENDENCIA Y COMERCIO
Radicacion : 01030201 00000001 Folios: 2
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Dependencia: 2000 DIVISION DE NUEVAS CREACIONES

***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CLARKE MODET Y CO. COLOMBIA	CONSIGNACION	BANCO POPULAR	030-00110-6	5541556	11/12/2001	4.834.440.00

***** CONCEPTO *****

CANT.	CONCEPTO	TOTAL CONCEPTO
1	50005-01-01 SOLICITUDES	
	85 EXAMEN DE PATENTABILIDAD DE INVEN	300.000.00
	TOTAL :	\$ 300.000.00

SON: TRESCIENTOS MIL PESOS

RESPONSABLE :

RECIBO DE CAJA APLICADO AL EXPEDIENTE No.

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**SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISION DE NUEVAS CREACIONES**

2020

Bogotá, D.C., 11 de octubre de 2005

Doctora

DILIA MARIA RODRIQUEZ D'ALEMAN

Apoderada

Oficio No.

00709

ASUNTO

Radicación 01-30201

Trámite 002

Evento 001

Actuación 430

Folios 019

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 le comunica:

1. Documentos estudiados

- Para el presente estudio se tuvo en cuenta el capítulo descriptivo que se encuentra en los folios 5 a 11, los dibujos que se encuentran en los folios 15 y 16, y el capítulo reivindicatorio que se encuentra en los folios 12 y 13 que comprende once (11) reivindicaciones.
- De acuerdo con el folio 42 de la solicitud en estudio, se considerará la prioridad reivindicada sobre la solicitud de México No. 003837 del 19 de abril de 2000.

2. Objeto de la Invención

- La invención propuesta se relaciona con sistemas para desechar artículos absorbentes desechables.

En la reivindicación Independiente 1 se define un artículo absorbente desechable caracterizado porque tiene un sistema para desechar el mismo, que consiste de uno o varios hilos elásticos unidos en forma de asa u ovillo por la parte de cintura trasera del artículo de modo que para desechar el artículo absorbente desechable, se enrolla sobre sí mismo y se sujeta con la o las bandas elásticas en forma de asa u ovillo para mantenerlo en esa configuración.

- Se afirma que el estado de la técnica contiene artículos absorbentes desechables que presentan el grave problema de no poderse desechar adecuadamente, ya que, una vez que son usados, o bien se bajan por las piernas del usuario, o bien se abren por uno o ambos paneles laterales, pero no hay manera de mantener al calzón enrollado y cerrado, ocasionando con esto que una vez que se ha desechado, el calzón se abra exponiendo al ambiente los exudados, causando malos olores y contaminación.
- El objeto de la invención definido se catalogó como A61F 13/15, según la Clasificación Internacional de Patentes (IPC).

3. Determinación del estado de la técnica

El artículo 16 de la Decisión 486 de la Comisión establece: "El estado de la técnica comprenderá todo lo que haya sido accesible al público por una descripción escrita u oral, utilización, comercialización o cualquier otro medio antes de la fecha de presentación de la solicitud de patente o, en su caso, de la prioridad reconocida.

Sólo para el efecto de la determinación de la novedad, también se considerará dentro del estado de la técnica, el contenido de una solicitud de patente en trámite ante la oficina nacional competente, cuya fecha de presentación o de prioridad fuese anterior a la fecha de presentación o de prioridad de la solicitud de patente que se estuviese examinando, siempre que dicho contenido esté incluido en la solicitud de fecha anterior cuando ella se publique o hubiese transcurrido el plazo previsto en el artículo 40."

- Se consultaron las bases de datos con que cuenta y tiene acceso la entidad y se consideró el 19 de abril de 2000 como fecha para investigar el estado de la técnica.
- De acuerdo con lo establecido en el artículo 16 se determinó el estado de la técnica y se encontraron los siguientes antecedentes:

No.	Documento No.	Título	Fecha de Publicación
1	EP0890351	"DISPOSABLE ABSORBENT GARMENT HAVING DISPOSAL TAPE FASTENER"	23 de junio de 1998
2	DE9414056U	"DAMENBINDE MIT EINEM VERSCHLUßBAND ZUM UMFASSEN UND ZUSAMMENBINDEN DER BINDE NACH DEREN GEBRAUCH"	8 de diciembre de 1994
3	EP0826352	"DISPOSABLE BODY FLUID ABSORBENT ARTICLE HAVING DISPOSAL SECURING MEANS"	20 de agosto de 1997

4. Evaluación de los requisitos de patentabilidad

El artículo 14 de la Decisión 486 de la Comisión de la Comunidad Andina establece: "Los Países Miembros otorgarán patentes para las invenciones, sean de producto o de procedimiento, en todos los campos de la tecnología, siempre que sean nuevas, tengan nivel inventivo y sean susceptibles de aplicación Industrial."

En cumplimiento con este artículo, se procedió a evaluar los requisitos de novedad, nivel inventivo y aplicación Industrial con el fin de establecer la patentabilidad de la invención reivindicada en la solicitud en estudio.

Evaluación del Nivel Inventivo:

El artículo 18 de la Decisión 486 de la Comisión de la Comunidad Andina establece: "Se considerará que una invención tiene nivel inventivo, si para una persona del oficio normalmente versada en la materia técnica correspondiente, esa invención no hubiese resultado obvia ni se hubiese derivado de manera evidente del estado de la técnica."

Respecto al estado de la técnica:

- En el documento **EP0890351** (llamado de aquí en adelante D1) se divulga una prenda absorbente de fluidos corporales desechable provista con un medio de seguridad para desecho que incluye un sujetador de cinta usado para asegurar la prenda en estado enrollado para desecharla. El sujetador de cinta comprende una sección intermedia extensible y un par de secciones distales inelásticas y adhesivas. Una región del sujetador de cinta que se extiende entre el par de secciones distales de la cinta se enlaza parcialmente a una superficie externa de una hoja posterior (la más exterior) de la prenda tal como se observa en las figuras.
- En el documento **DE9414058U** (llamado de aquí en adelante D2) se divulga una toalla sanitaria (otro tipo de artículo absorbente desechable) que presenta un sistema adicional de sujeción asociado a la capa exterior de la toalla.

El sistema de sujeción permite mantener la toalla de forma enrollada en sí misma donde la zona de contacto con los fluidos queda aislada del exterior. La cinta de sujeción puede estar dispuesta de forma paralela al eje longitudinal de la toalla o de forma paralela al eje transversal de la toalla de tal manera que la toalla enrollada puede fijarse con la cinta en los dos sentidos mencionados como se muestra en las figuras.

- En el documento **EP0826352** (llamado de aquí en adelante D3) se divulga una cinta de desecho usada para asegurar un artículo absorbente desechable tal como un pañal en un estado enrollado para su desecho que incluye una cinta adhesiva y una cinta liberable.

La cinta adhesiva es fijada a una parte periférica a la capa que constituye la superficie externa del artículo y tiene una zona adhesiva en la parte periférica opuesta (es decir, la parte periférica libre). La cinta liberable se extiende en alineación con la cinta adhesiva y tiene una porción liberable fijada a la superficie externa del artículo y una porción que está contigua a la porción liberable y adyacente al extremo de la cinta adhesiva.

Respecto a la solicitud en estudio:

- El técnico de nivel medio versado en la materia encargado de resolver el problema identificado en el numeral 2 de la presente comunicación puede ser un ingeniero químico que labore en la industria de los artículos absorbentes y que atiende a planes de mejoramiento continuo normalmente establecidos en las empresas.
- De acuerdo con la información contenida en el capítulo reivindicatorio, se entiende que el principio técnico sobre el cual se fundamenta la propuesta consiste en que los artículos absorbentes desechables posean un sistema para desecharlos que consista de uno o varios hilos elásticos unidos en forma de asa u ovillo por la parte de la cintura trasera del artículo de modo que el artículo absorbente desechable puede enrollarse sobre sí mismo y sujetarse con la o las bandas elásticas para mantenerlo en esa configuración. Sin embargo, con las anterioridades citadas se puede demostrar que dicho principio fundamental puede ser derivado por un técnico de nivel medio versado en la materia. Se afirma esto porque si él tuviera acceso a cualquiera de los documentos citados como relevantes podría verse impulsado a resolver el mismo problema técnico desarrollando cintas o bandas elásticas asociadas a la capa exterior del artículo absorbente de forma que al desechar el artículo este pueda mantenerse enrollado en sí mismo sin dejar descubierta la zona donde fueron recibidos los exudados corporales.

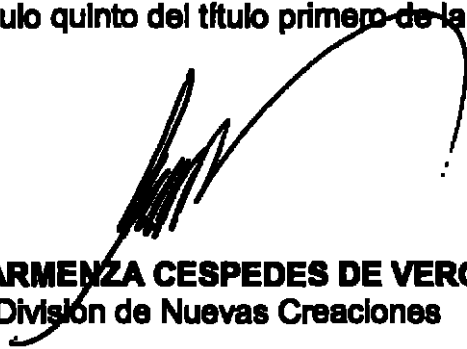
- Según lo antedicho, proponer un artículo absorbente desechable con el sistema de sujeción especificado en las reivindicaciones de la solicitud en estudio, no genera un efecto sorprendente que evidencie un salto tecnológico respecto al arte previo.
- Por lo anteriormente expuesto, la invención definida por las reivindicaciones 1 a 11 de la solicitud, podría verse afectada en su nivel inventivo ya que se deriva de manera evidente del estado de la técnica y puede ser obvia para un técnico de nivel medio versado en la materia. Por tanto, no cumpliría con las disposiciones del artículo 18 de la Decisión 486 de la Comisión de la Comunidad Andina.
- Los requisitos de patentabilidad de la presente solicitud se encuentran afectados así:

No.	Documento	Reivindicaciones Afectadas	Requisito que afecta
1.	EP0890351	1 – 11	Nivel Inventivo
2.	DE9414058U	1 – 11	Nivel Inventivo
3.	EP0826352	1 – 11	Nivel Inventivo

Se anexan los apartes principales de las anterioridades en el documento adjunto.

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 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.

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.


ALIX CARMENZA CESPEDES DE VERGEL
Jefe de División de Nuevas Creaciones

El anterior requerimiento fue notificado por fijación en lista, de fecha 20 OCT. 2003

CONCEPTO TECNICO No. 1579	EXAMINADOR TECNICO Código No. 202042
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(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
13.01.1999 Bulletin 1999/02

(51) Int Cl⁸: A61F 13/15

(21) Application number: 96304610.7

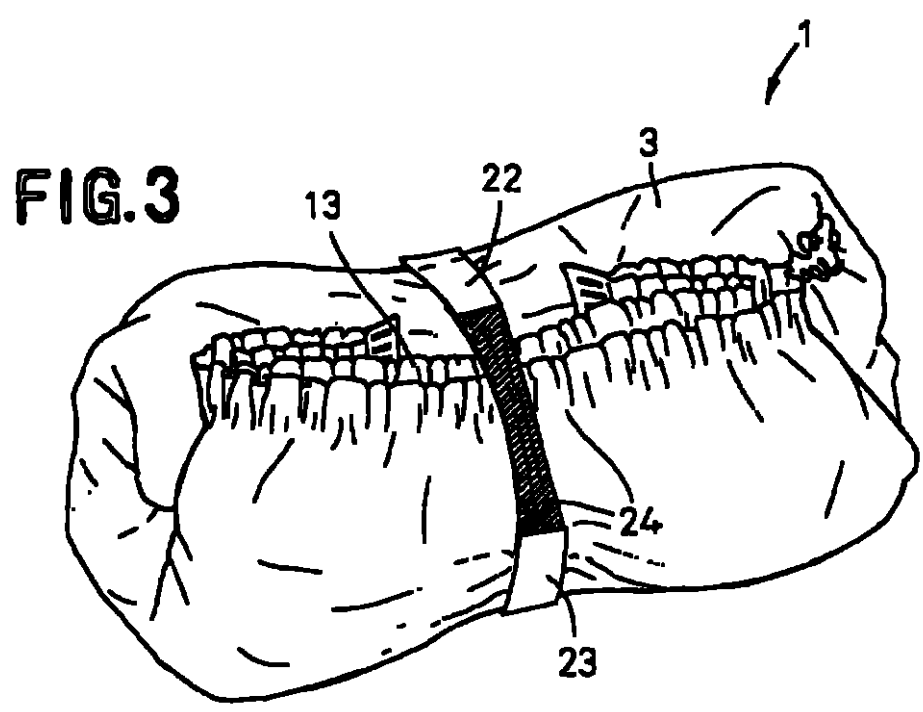
(22) Date of filing: 23.08.1998

(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE Designated Extension States: AL LT LV MK RO SI (30) Priority: 10.07.1997 JP 184808/97 (71) Applicant: UNI-CHARM CORPORATION Kawanoe-cho Ehime-ken (JP)	(72) Inventors: • Inoue, Yasuaki, C/o Res. & Dev. Div. Mitoyo-gun, Kagawa-ken 769-1602 (JP) • Soga, Hiroyuki, C/o Res. & Dev. Div. Mitoyo-gun, Kagawa-ken 769-1602 (JP) (74) Representative: Parry, Christopher Stephen Saunders & Dolleymore, 9 Rickmansworth Road Watford, Herts. WD1 7HE (GB)
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(54) Disposable absorbent garment having disposal tape fastener

(57) A disposable body fluids absorbent garment is provided with disposal securing means including a tape fastener used to secure the garment in its rolled up state for disposal. The tape fastener comprises an extendible intermediate tape section and a pair of inelastic and adhesive distal end tape sections extending from the in-

termediate tape section in a direction of its extension. A region of the tape fastener extending between the pair of distal end tape sections is partially bonded to an outer surface of a backsheet of the garment so that this region is not inseparable from the backsheet when the tape fastener is pulled in an extension direction thereof.



EP 0 890 351 A2

Description

This invention relates to disposable body fluids absorbent garments, such as disposable diapers, training pants, diapers for incontinent patients or sanitary napkins, provided with means used to secure the used garments in their rolled up state for disposal.

Japanese Laid-Open Utility Model Application No. Hei5-77722 discloses a pull-on diaper provided with a tape fastener having one end fixed on an outer surface of a backsheet of the diaper and extendible from a crotch region toward a waist-opening of the diaper. The diaper smeared with excretion may be rolled up from the crotch region toward the waist-opening with the tape fastener being laid outside, then the tape fastener is stretched until its one end reaches a farther side of the waist-opening and finally an adhesive zone on an inner surface of the tape fastener is anchored to the backsheet on the farther side of the waist-opening. In this manner, the diaper can be rolled up without exposure of excretion-smeared locations and therefore can be disposed in a desirable condition from the hygienic viewpoint.

However, the above-mentioned diaper of prior art is inconvenient depending on a position at which the tape fastener is fixed to the backsheet. Specifically, when the diaper is rolled in the reverse direction instead of rolling it from the crotch region toward the waist-opening, it may be difficult or impossible to use the tape fastener. This is for the reason that a free end of the tape fastener to be held by a wearer or a helper may be rolled together with the diaper or prevented from being properly handled by the wearer or the helper.

In view of the problem as has been described above, it is a principal object of the invention to provide a disposable body fluids absorbent garment allowing the garment after use to be properly rolled up regardless of the directions in which the tape fastener is stretched.

The object set forth above is achieved, according to the invention, by a disposable body fluids absorbent garment comprising a laminate structure formed by a liquid-permeable topsheet, a liquid-impermeable backsheet and a liquid-absorbent core disposed between these two sheets; and disposal securing means provided on an outer surface of said backsheet so as to be used to roll up said laminate structure, wherein: said disposal securing means comprises a tape fastener including an extendible intermediate tape section and a pair of inelastic and adhesive distal end tape sections extending from longitudinally opposite ends of said intermediate tape section in a direction in which said intermediate tape section is extendible wherein a region of said tape fastener extending between said pair of distal end tape sections and including said intermediate tape section is partially bonded to said outer surface of said backsheet so that said region is substantially inseparable from said outer surface of said backsheet when said tape fastener is pulled in an extension direction thereof.

According to an embodiment of the invention, said

tape fastener is bonded to said outer surface of said backsheet in the proximity of a longitudinally middle sub-section of said intermediate tape section so that said middle sub-section is substantially inseparable from said outer surface of said backsheet against a stretch force exerted on said tape fastener.

According to another embodiment of the invention, said tape fastener is temporarily secured to said outer surface of said backsheet by means of adhesive at respective proximal ends of said distal end tape sections, said proximal ends being contiguous to said intermediate tape section, so that said proximal ends are easily separated from said outer surface of said backsheet when said distal end tape sections are pulled so as to be folded in a direction opposed to a direction in which they normally extend from said intermediate tape section, respectively, but said proximal ends are substantially inseparable from said outer surface of said backsheet when said distal end tape sections are pulled in said direction in which they normally extend from said intermediate tape section.

Fig. 1 is a perspective view showing a disposable body fluids absorbent garment with disposal securing means according to the invention, in the form of a disposable diaper, as partially broken away;

Fig. 2 is a sectional view taken along a line II-II in Fig. 1;

Fig. 3 is a perspective view showing the diaper as rolled up for disposal; and

Fig. 4 is a view similar to Fig. 2 showing an alternative embodiment of the invention.

Details of a disposable body fluids absorbent garment with disposal securing means according to the invention will be more fully understood from the description of a disposable diaper as a specific embodiment of the invention given hereunder with reference to the accompanying drawings.

Fig. 1 shows a laminate structure 1 of a pull-on or pants type disposable diaper as viewed from a side of the wearer's back in a perspective view as partially broken away. The laminate structure 1 comprises a liquid-permeable topsheet 2, a liquid-impermeable backsheet 3 and a liquid-absorbent core 4 disposed between these two sheets 2, 3. The laminate structure 1 has a front waist region 5, a rear waist region 7 and a crotch region 6 extending between these two waist regions 5, 7. The front and rear waist regions 5, 7 are put flat and bonded together along their transversely opposite side edges 11, 12 so as to form a waist-opening 13 and a pair of leg-openings 14. The openings 13, 14 are provided along their peripheral edges with a plurality of elastic members 15 associated with said waist-opening 13 and a plurality of elastic members 17 associated with said leg-openings 14. The elastic members 15, 17 are bonded under their longitudinally stretched conditions, respectively, to an inner surface of a portion of the top-

ternative embodiment also, the tape fastener 21 comprises the upper tape section 22, the lower tape section 23 and the intermediate tape section 24. In addition, in this fastener tape 21, the intermediate tape section 24 has its vertically middle sub-section firmly bonded to the outer surface of the backsheet 3 by means of adhesive 31 or heat-sealing. In this way, the tape fastener 21 is not easily separated from the backsheet 3 regardless of the directions in which the upper and lower tape sections 22, 23 are pulled.

According to the embodiments as have been described above, the first and second adhesive 26, 28 with which the upper and lower tape sections 22, 23 are applied may be well known pressure-sensitive adhesive usually applied on adhesive surfaces of tape fasteners attached to transversely opposite sides of a front or rear waist region and used to close a waist-loop of a so-called open type disposable diaper. In this regard, adhesive of different types can be selectively used for the first, second and third sub-areas 26A ~ 26C, 28A ~ 28C of the first and second adhesive 26, 28, respectively. The term "inelastic" used in the description made above with respect to the upper and lower tape sections 22, 23 should be understood to mean that an amount by which these tape sections 22, 23 can be stretched is negligibly small compared to an amount by which the intermediate tape section 24 can be stretched during actual use of the tape fastener 21.

The disposable body fluids absorbent garment according to the invention is provided with the tape fastener used to roll up the used diaper for disposal and this tape fastener advantageously has the bidirectional extendibility. Accordingly, there is no apprehension that a wearer or a helper might roll up the used diaper in an improper direction.

Claims

1. A disposable body fluids absorbent garment comprising a laminate structure formed by a liquid-permeable topsheet, a liquid-impermeable backsheet and a liquid-absorbent core disposed between these two sheets; and a disposal securing means attached to an outer surface of said backsheet so as to be used to roll up said laminate structure, wherein:
 said disposal securing means comprises a tape fastener including an extendible intermediate tape section and a pair of inelastic and adhesive distal end tape sections extending from longitudinally opposite ends of said intermediate tape section in a direction in which said intermediate tape section is extendible wherein a region of said tape fastener extending between said pair of distal end tape sections and including said intermediate tape section is partially bonded to said outer surface of said backsheet so that said region is substantially inseparable from said outer surface of said backsheet when said tape fastener is pulled in an extension direction thereof.

able from said outer surface of said backsheet when said tape fastener is pulled in an extension direction thereof.

2. The garment according to Claim 1, wherein said tape fastener is bonded to said outer surface of said backsheet in the proximity of a longitudinally middle sub-section of said intermediate tape section so that said middle sub-section is substantially inseparable from said outer surface of said backsheet against a stretch force exerted on said tape fastener.
3. The garment according to Claim 1, wherein said tape fastener is temporarily fastened to said outer surface of said backsheet by means of adhesive at respective proximal ends of said distal end tape sections, said proximal ends being contiguous to said intermediate tape section, so that said proximal ends are easily separated from said outer surface of said backsheet when said distal end tape sections are pulled so as to be folded in a direction opposed to a direction in which they normally extend from said intermediate tape section, respectively, but said proximal ends are substantially inseparable from said outer surface of said backsheet when said distal end tape sections are pulled in said direction in which they normally extend from said intermediate tape section.

FIG. 1

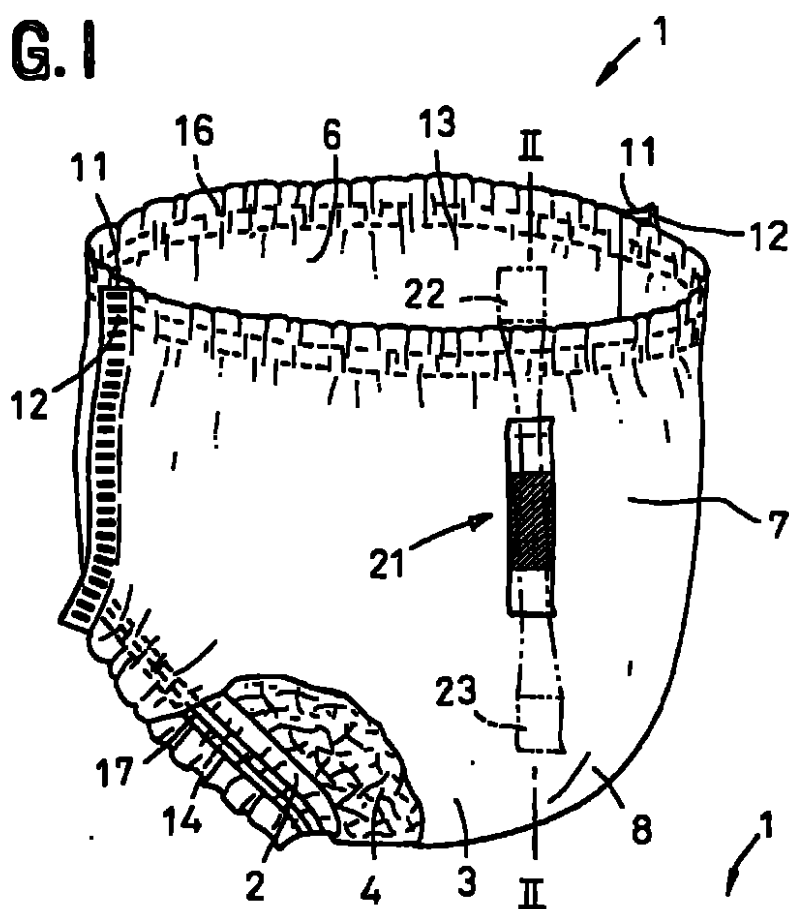
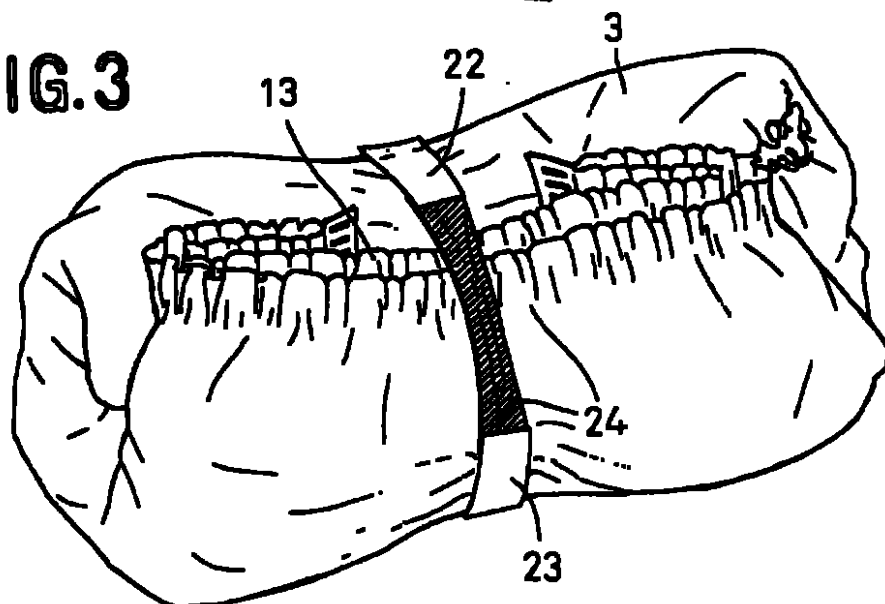


FIG. 3



⑩ BUNDESREPUBLIK DEUTSCHLAND

DEUTSCHES PATENTAMT



⑫ **Gebrauchsmuster**

U1

- (11) Rollennummer G 94 14 056.1
- (51) Hauptklasse A61F 13/56
- Nebenklasse(n) A61F 13/15
- (22) Anmeldetag 31.08.94
- (47) Eintragungstag 27.10.94
- (43) Bekanntmachung
 im Patentblatt 08.12.94
- (54) Bezeichnung des Gegenstandes
 Damenbinde mit einem Verschlußband zum Umfassen
 und Zusammenbinden der Binde nach deren Gebrauch
- (73) Name und Wohnsitz des Inhabers
 Wong, Cheng-Hao, Taipeh/Tai-peí, TW
- (74) Name und Wohnsitz des Vertreters
 Knauf, R., Dipl.-Ing.; Werner, O., Dipl.-Ing.
 Dr.-Ing.; Schippan, R., Dipl.-Ing. Dr.-Ing.;
 Thielmann, A., Dipl.-Ing., 40472 Düsseldorf;
 Minderop, R., Dr.ver.nat., 30655 Hannover; Simons,
 J., Dipl.-Ing., Pat.-Anwälte, 40472 Düsseldorf

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**Damenbinde mit einem Verschlußband zum Umfassen und
Zusammenbinden der Binde nach deren Gebrauch**

Beschreibung

Hintergrund der Erfindung

Die vorliegende Erfindung betrifft eine Damenbinde mit einem Verschlußband. Nachdem die Damenbinde benutzt ist, wird die Damenbinde zuerst gefaltet und durch das Verschlußband umfaßt bzw. zusammengebunden und dann abgelegt, um die mögliche Verunreinigung der Umgebung zu vermindern.

Die herkömmlich verwendeten Damenbinden werden mit immer weniger Gewicht und Volumen entworfen, um den Gebrauch von Damenbinden zu fördern und die durch weggeworfene Damenbinden verursachte Verunreinigung der Umgebung zu vermindern.

Im allgemeinen ist eine solche Binde mit einem Kleberückenabschnitt versehen, so daß eine Benutzerin die Damenbinde nach dem Gebrauch zu einer kleineren Einheit falten oder rollen und deren Kleberückenabschnitte dann miteinander verkleben kann, um die Binde in der kleineren Formeinheit zu halten und die in der Binde enthaltende Körperflüssigkeit am Heraustropfen und der Verunreinigung der Umgebung zu hindern.

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Schutzansprüche

1. Damenbinde mit einem Verschlußband zum Umfassen und Zusammenbinden der Damenbinde nach deren Gebrauch, die einen Hauptkörper (10) mit einer Rückseite (11) und einer Körperkontaktseite und ein auf der Rückseite (11) des Hauptkörpers (10) angeordnetes Verschlußband (20) umfaßt, welches zwei Enden (21, 22) hat, die an zwei Abschnitten der Rückseite (11) des Hauptkörpers (10) befestigt sind, wobei das Verschlußband (20) zum Umfassen und Zusammenbinden der gebrauchten Damenbinde in einem gefalteten oder aufgerollten Zustand verwendet wird.
2. Damenbinde gemäß Anspruch 1, bei der das Verschlußband einen elastisch dehnbaren Abschnitt (23) aufweist, durch den das Verschlußband (20) erweiterbar ist, um die gebrauchte Damenbinde vollständig zu umfassen und zusammenzubinden.
3. Damenbinde gemäß Anspruch 1 oder 2, bei der das Verschlußband (20) längs auf der Rückseite (11) des Hauptkörpers (10) der Damenbinde angeordnet ist.
4. Damenbinde gemäß Anspruch 1 oder 2, bei der das Verschlußband (20) quer auf der Rückseite (11) des Hauptkörpers (10) der Damenbinde angeordnet ist.
5. Damenbinde gemäß Anspruch 1 oder 2, bei der das Verschlußband (20) auf der Rückseite (11) des Hauptkörpers (10) der Damenbinde angeordnet und von mehreren Kleberückenabschnitten (12) getrennt ist.

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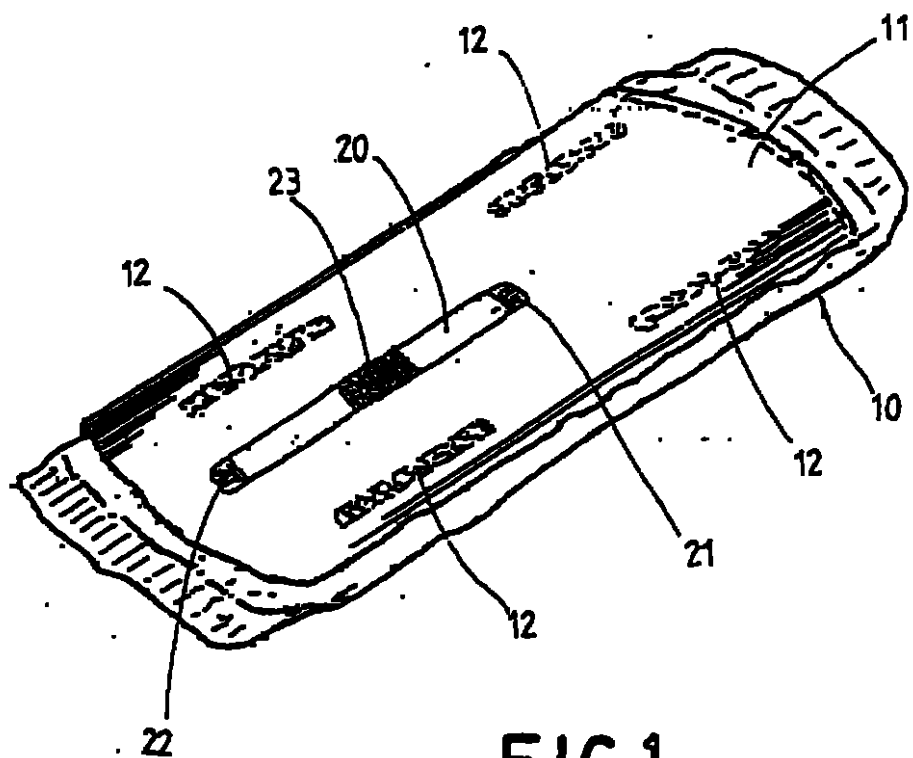


FIG. 1

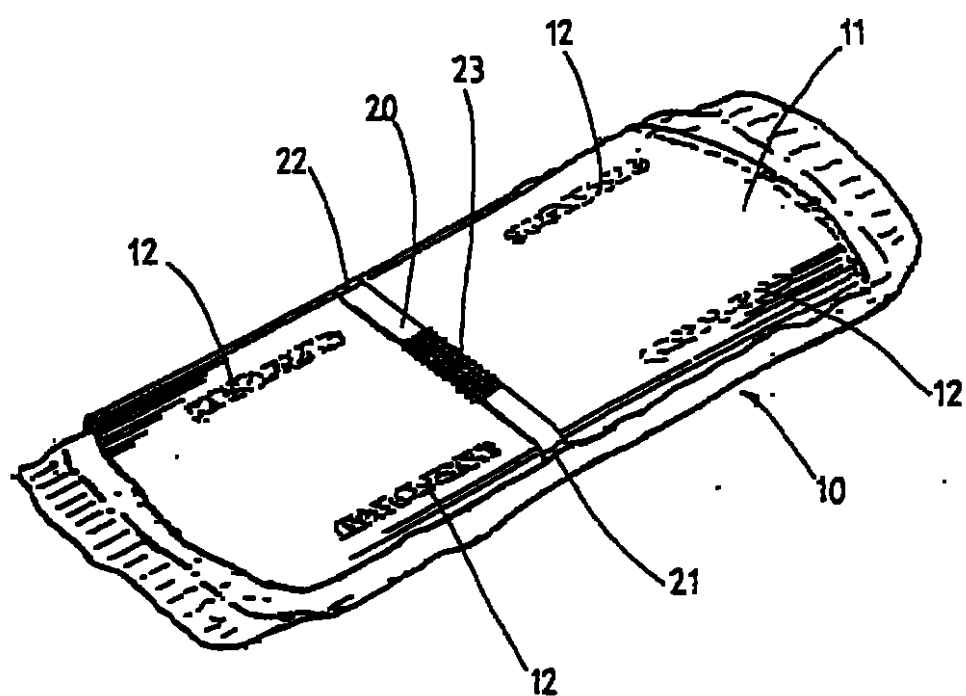


FIG. 2

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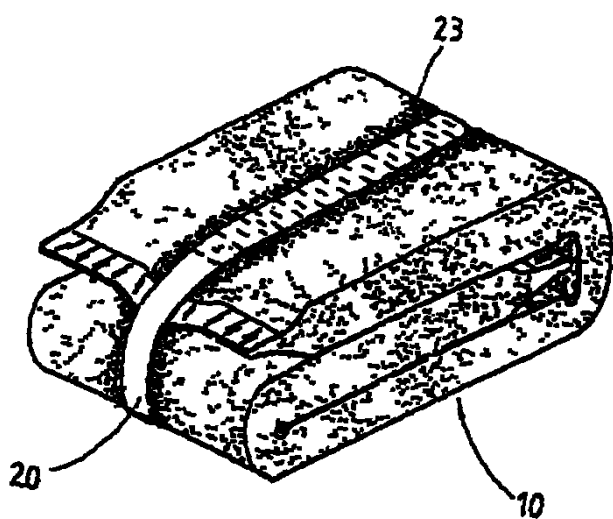


FIG. 3

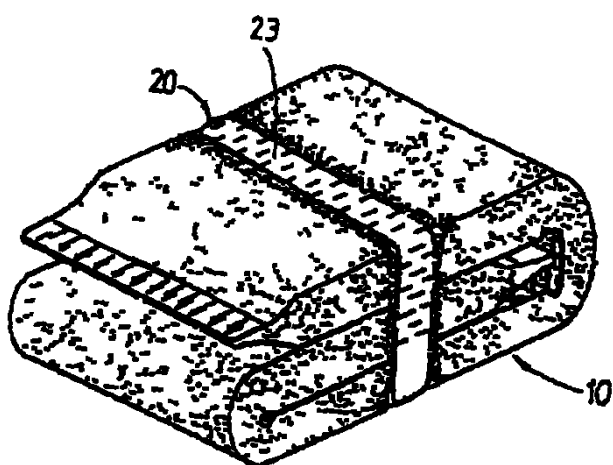


FIG. 4

11 12 13 14

31.08.94

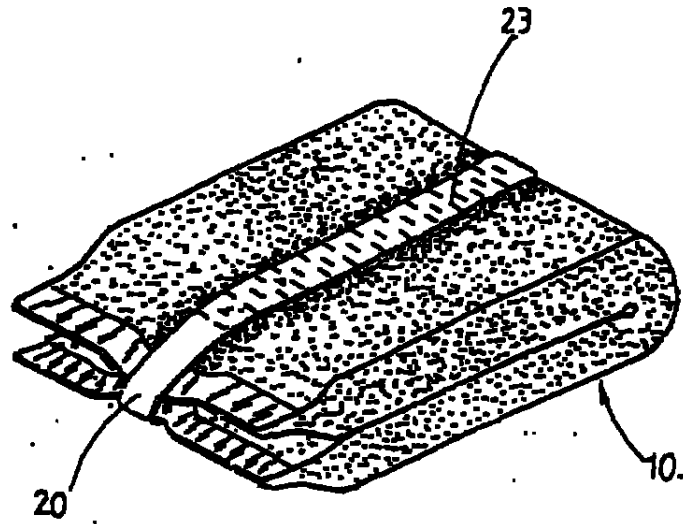


FIG. 5

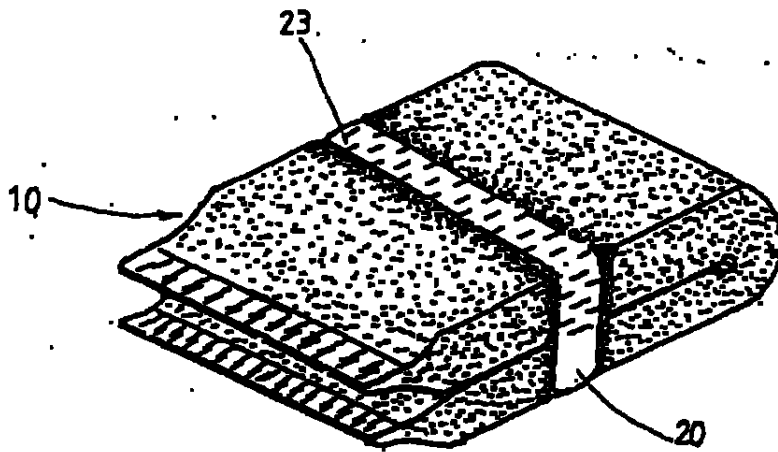


FIG. 6

94.14.056

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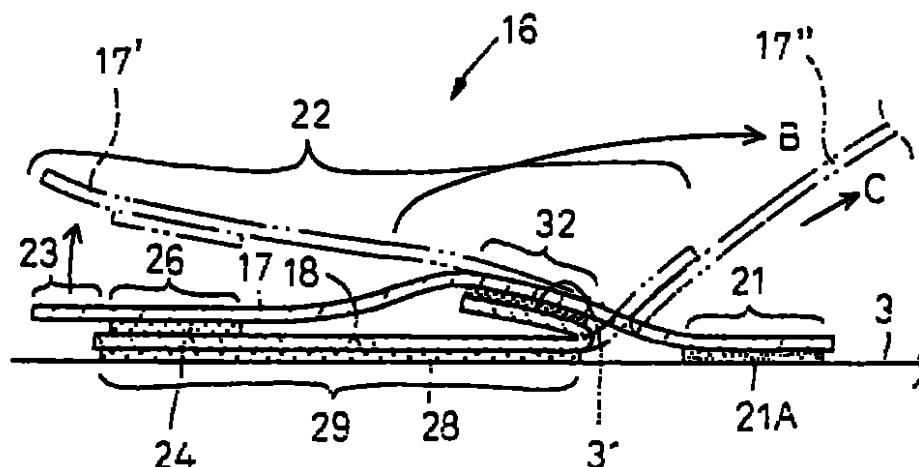
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(54) **Disposable body fluid absorbent article having disposal securing means**

(57) Disposal securing means used to secure a disposable body fluid absorbent article such as a disposable diaper in a rolled up state for disposal thereof comprise an adhesive tape and a release tape. The adhesive tape is fixed at one end portion to the outer surface of the article and has an adhesive zone on the opposite end portion (i.e., free end portion). The release tape ex-

tends in alignment with the adhesive tape and has a release portion fixed to the outer surface of the article and a fold-back portion being contiguous to the release portion and folded back adjacent the end of the adhesive tape. The adhesive zone provided on the adhesive tape is releasably bonded to the release portion and the fold-back portion of the release tape is fixed to the inner surface of the free end portion of the adhesive tape.

FIG.2



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on the diaper 1 owing to the presence of the release tape 18 as in the case of the embodiment shown in Fig. 2. In addition, it is also possible for the arrangement shown in Fig. 4 to prevent the intermediate tape 38 from being peeled off from the lower end tape 36. The diaper 1 provided with such disposal securing means 16 allows the adhesive tape 17 which has been sufficiently elongated by stretching the intermediate tape 38 to be bonded to the rolled up diaper 1 at any location thereon. If the intermediate tape 38 is sufficiently stretchable, the adhesive tape 17 can be tightly wound round the rolled up diaper 1 double or even trebly and used to make the diaper 1 less bulky. If the intermediate tape 38 is elastic not only for stretch but also for contraction, the adhesive tape 17 once having been wound round the diaper 1 will be not readily loosened.

Fig. 5 is a view similar to Fig. 2 showing still another embodiment of the disposal securing means 16. According to this embodiment, the adhesive tape 17 comprises a single piece of tape folded in a Z-shape defined by a top portion 41, an intermediate portion 42 and a bottom portion 43. The top portion 41 includes a tab zone 23 and an adhesive zone 25 applied with adhesive 24 on its inner surface. The intermediate portion 42 is releasably bonded to the bottom portion 43 by means of adhesive 44 having a relatively low adhesive strength. The bottom portion 43 is, in turn, releasably bonded to the release tape 18 by means of adhesive 46 which is also of a relatively low adhesive strength. As the adhesive tape 17 is pulled with the tab zone 23 held by the user's fingers leftward as viewed in Fig. 5, the adhesive zone 25 is peeled off from the intermediate portion 42 which is, in turn, peeled off from the bottom portion 43. The adhesive tape 17 thus unfolded and thereby elongated can be tightly wound the used diaper 1 to secure the diaper 1 in a rolled up state. By pulling the adhesive tape 17 rightward as viewed in Fig. 5, the bottom portion 43 is peeled off from the release tape 18 and further elongated as shown by imaginary lines. This embodiment allows the adhesive tape 17 to be sufficiently elongated without use of the tape material which is elastic for stretch and contraction as used in the embodiment shown by Fig. 3.

Arrangement of the disposal securing means 16 on the diaper 1 according to the invention is not limited to the embodiments as have been described in reference with the accompanying drawings. For example, it is possible to provide the disposal securing means 16 on the front waist region 8 or the crotch region 9. It is also possible to arrange the adhesive tape 17 of the disposal securing means 16 so as to extend downward from its fixed end, instead of extending upward from its fixed end, as in the illustrated embodiments, or even to extend circumferentially around the waist regions. Furthermore, it is also possible to provide the diaper 1 with a plurality of these disposal securing means 16 at various locations on the diaper 1.

The entire disclosure of Japanese Patent Applica-

tion No. 8-229803 filed on August 30, 1995 including specification, claims, drawings and abstract are incorporated herein by reference in its entirety.

Claims

1. A disposable body fluid absorbent article comprising an inner surface intended to be placed closely adjacent a wearer's skin, an outer surface intended to be placed remotely from the wearer's skin and disposal securing means used to secure said article in a shape desired for disposal of said article, wherein:

said disposal securing means comprise a first tape and a second tape disposed between said first tape and the outer surface of said article and extending in alignment with said first tape; said first tape has inner and outer surfaces and comprises a first fixed portion extending adjacent longitudinally one end and fixed on the inner surface of said first tape to the outer surface of said article and a free portion extending adjacent the longitudinally opposite end, said free portion comprising, as viewed from said longitudinally opposite end toward said first fixed portion, a tab zone having no adhesive on both the inner and outer surfaces of said first tape and an adhesive zone having adhesive on the inner surface of said first tape alone; said second tape has inner and outer surface and comprises a second fixed portion extending from said free portion toward said first fixed portion of said first tape and fixed on the inner surface of said second tape to the outer surface of said article and a fold-back portion being contiguous to said second fixed portion and folded back adjacent said first fixed portion of said first tape with said inner surface of said second tape facing outward; and said adhesive zone provided on said free portion of said first tape is bonded to the outer surface of said second fixed portion of said second tape and said fold-back portion of said second tape is fixed on the outward facing surface of said fold-back portion to the inner surface of said free portion of said first strip.

2. The disposable body fluid absorbent article according to Claim 1, wherein said first tape comprises a forward tape forming said tab zone and said adhesive zone of said free portion, a backward tape forming said first fixed portion and an intermediate tape has forward and backward ends and disposed between said forward and backward tapes and being elastically stretchable longitudinally of said first tape, said forward tape is fixed to the forward end

of said intermediate tape, the backward end of said intermediate tape is fixedly held between said backward tape and said fold-back portion of said second tape.

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3. The disposable body fluid absorbent article according to Claim 1, wherein said first tape is folded in a Z-shape so as to be unfolded longitudinally in actual use thereof and said adhesive zone provided on said free portion of said first tape is releasably bonded to the outer surface of said first tape or of said second fixed portion of said second tape.

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4. The disposable body fluid absorbent article according to Claim 1, wherein said disposal securing means are provided in a center area of a rear waist region of said article.

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5. The disposable body fluid absorbent article according to Claim 4, wherein said article is a pull-on diaper.

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FIG.3

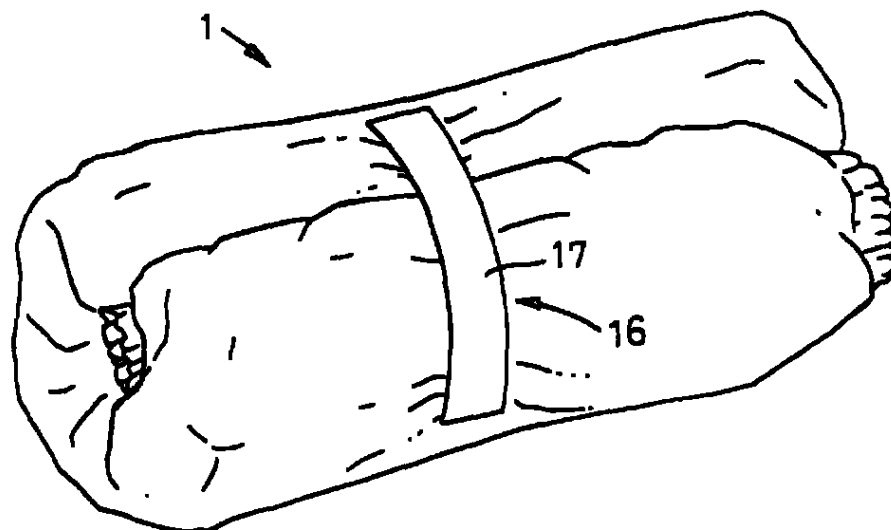


FIG.4

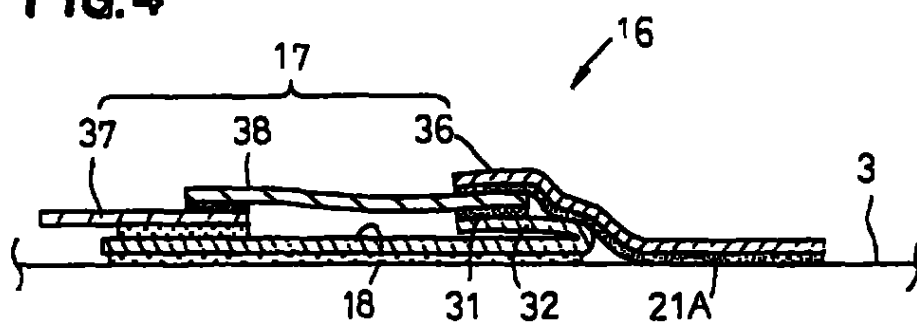


FIG.5

