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Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

FORMULARIO UNICO DE OPOSICION
2000-12

1 OPOSICION A:

- | | |
|---|---|
| ☒ Patente de Invención | ☐ Marca Colectiva |
| ☐ Patente de Modelo de Utilidad | ☐ Marca de Certificación |
| ☐ Diseño de Industrial | ☐ Lema Comercial |
| ☐ Esquema de Trazado para Circuitos Integrados | |
| ☐ Marcas de Productos o Servicios | |

2 SOLICITUD PUBLICADA

Número del expediente : 0461301
Solicitante: KIMBERLY - CLARK WORLDWIDE, INC.
Apoderado: CARLOS R. OLARTE
Título de la nueva creación o denominación del signo: SURTIDOR PARA MATERIAL DE HOJA
Gaceta: 544 de Fecha 30 de Septiembre de 2004
Número de Publicación : N.P. 331

3 OPOSICION PRESENTADA POR:

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4 FUNDAMENTOS DE LA OPOSICION:

Causal : Ver siguiente página.
Justificación:

5. Comprobante de Pago No.		Fecha
6.	Anexos	
☒	Comprobante del Pago de la Tasa	
☐	Poderes	
☐	Pruebas de los fundamentos de la oposición	
☐	Documentos que acrediten el legítimo, interés si fuere del caso	
☐	Certificado de existencia y representación de las partes cuando fueran personas Jurídicas.	
☒	Copia de la oposición para traslado.	
	7. Firma	
	Nombre 	
	MAURICIO JARAMILLO CAMPUZANO C.C. No. 80'421.942 de Bogotá T.P. 74'555 del C.S. de la J.	
	DMR	

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Señora Jefe,
DIVISIÓN DE NUEVAS CREACIONES
Superintendencia de Industria y Comercio
E. S. D.

Referencia : Expediente N° 04061301
Asunto : Oposición a la solicitud de patente de Invención
titulada "SURTIDOR PARA MATERIAL EN
HOJA".
Solicitante: KIMBERLY-CLARK WORLDWIDW INC..
Opositora: FAMILIA S.A.

Publicada en la Gaceta de la Propiedad Industrial
N° 544 del 30 de septiembre de 2004

Yo, MAURICIO JARAMILLO CAMPUZANO, abogado con tarjeta profesional N° 74.555 del CSJ, en mi condición de apoderado de la sociedad FAMILIA S.A. conformada bajo las leyes de la República de Colombia y domiciliada en la ciudad de Medellín, Colombia, atentamente manifiesto que estando dentro del término de ley y por orden expresa de mi representada, presento oposición a la concesión del registro de la patente de Invención titulada "SURTIDOR PARA MATERIAL EN HOJA", solicitada por KIMBERLY-CLARK WORLDWIDW INC..., y pido a Usted declarar fundada esta oposición y en consecuencia negar el registro de la patente solicitada.

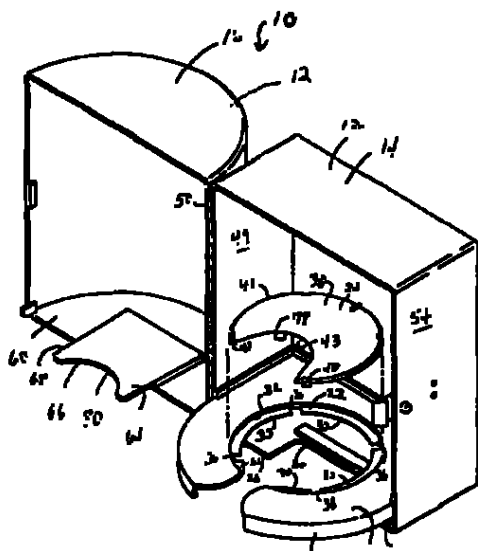
1. INTERÉS PARA ACTUAR

Conforme a lo dispuesto en el artículo 42 de la Decisión 486 de 2000 de la CAN, estando dentro del término estipulado por la ley, manifiesto el legítimo interés de nuestra representada debido a que la solicitud pretendida no cumple con los requisitos dispuestos en la ley como se analizará más adelante y de ser concedida atentaría directamente a la comercialización que mi representada actualmente efectúa y desde años atrás con la presentación del su surtidor de papel. Por lo tanto, solicito respetuosamente a ese Despacho se sirva tener en cuenta la presente oposición dentro del trámite administrativo que se surte en esta Superintendencia.

2. FUNDAMENTOS DE HECHOS

2.1. La solicitud objeto de la presente oposición fue presentada el 28 de junio de 2004, reivindicando prioridad bajo US10/035,058, de fecha 28 de diciembre de 2001, cuya fecha de inicio en la fase nacional fue el 28 de julio de 2004, con publicación internacional N° WO 03/056994 del 17 de julio de 2003 y fue publicada en Colombia, en la Gaceta de la Propiedad Industrial N° 544, del 30 de Septiembre de 2004, bajo el N° de publicación NP. 331 (página 327).

2.2. La solicitud colombiana 04061301 objeto de la presente oposición, comprende según sus cláusulas 1 a 28, un surtidor adaptado para surtir un material de hoja, donde el surtidor comprende una caja que incluye una



plataforma configurada para sostener el material de hoja sobre la misma; la plataforma incluye una placa de orificio removible que tiene una abertura ahí colocada sobre un primer eje, la caja está formada para incluir una lumbrera de salida espaciada y separada de la plataforma, la lumbrera de salida está colocada sobre un segundo eje; en donde el material de hoja colocado en el surtidor fluye entre la abertura en la plataforma y la lumbrera de salida sobre un tercer eje; donde la abertura en la placa de orificio forma una forma U ensanchada; donde la abertura de la placa de orificio está configurada para surtir un grosor seleccionado de material de hoja. Además reivindica un método para instalar la hoja dentro del dispensador.

2.3. En primera instancia, la decisión 486 de la CAN establece claramente en su artículo número 14 lo siguiente: *"Los países miembros otorgarán patentes para las invenciones, sean de producto o procedimiento, en todos los campos de la tecnología, siempre que sean nuevas, tengan nivel inventivo y sean susceptibles de aplicación industrial"*. Así las cosas, la norma se refiere a que las invenciones objeto de patente deben ser nuevas y tener nivel inventivo además de aplicación industrial. Bien, pues antes de la fecha de prioridad de esta solicitud se encuentran los siguientes documentos que afectan estos requisitos de patentabilidad de la presente solicitud:

- D1: US 6'145.782 (2000-11-14)
- D2: US6'328.252 (2001-12-11)
- D3. EP0836852 (1998-04-22)

2.4. Por su parte, el documento D1 se refiere a un dispensador para un rollo de suministro central formado, como mínimo, a partir de un elemento laminar, comprendiendo dicho dispensador un cuerpo envolvente con una base, en el que dicha base incluye un medio de seguridad del rollo que define una abertura a través de la cual el elemento laminar puede suministrarse desde un rollo, caracterizado porque dicho medio de seguridad está configurado para permitir la inserción de un rollo de suministro central hacia arriba a través de la abertura hacia adentro del cuerpo envolvente y para soportar el rollo durante su uso para así impedir la extracción del rollo de suministro central hacia abajo a través de la abertura mientras se permite el suministro del elemento laminar a su través. Particularmente, en la descripción, especialmente a partir de la columna 8 línea 19 a columna 10 línea 16 y figuras 1 a 28, preferiblemente figuras 11 a 16 del D1, se define el mismo surtidor objeto de oposición, dado que en el documento D1, esta igualmente adaptado para surtir un material de hoja 116, donde el surtidor comprende una cubierta 62 que incluye una plataforma 46 configurada para sostener el material de hoja sobre la misma; donde la plataforma 46 incluye una la base de tapa 150 removible que tiene una abertura 168 ahí colocada sobre un primer eje, donde incluye un soporte 178 de salida espaciada 180 y separada de la plataforma, donde el soporte 178 de salida espaciada 180 está colocada sobre un segundo eje; en donde el material de hoja colocado en el surtidor fluye entre la abertura 168 en la base de tapa 150 y el soporte 178 de salida espaciada 180 conforme a la figura 15; donde la abertura 168 en la base de tapa 150 forma una forma U ensanchada; y, donde la abertura 168 en la base de tapa 150 está configurada par surtir un grosor seleccionado de material de hoja. Como se nota, el documento D1, revela la misma materia

de las cláusulas principales 1 y 22 y subsidiarias. Además, la solicitud objeto de oposición reivindica un método para instalar la hoja dentro del dispensador igual al revelado en este documento anterior D1. El método es el mismo, dado que el D1 también revela el hecho de proveer un dispensador con un puerto de salida 150; abrir el dispensador para acceder a la plataforma 46 provista en el dispensador el cual esta configurado para recibir el material, donde la plataforma 46 comprende una base de tapa 150 removible seleccionado para dispensar un efectivo numero de hojas de material a través de la abertura 168; disponer la hoja de material sobre la plataforma 46, entrelazar la hoja de material a través de la salida espaciada 180 del soporte 178 y extender el reborde de la hoja de material hasta la abertura 168 y cerrar el dispensador donde el reborde la hoja sobre sale por la base de tapa 150 conforme lo indica la figura 15 y se revela en la columna 8 línea 19 a columna 10 línea 16, afectando la cláusula principal 16 y sus subsidiarias. A todas luces, la intención de proteger la forma de dispensado donde el eje del papel comprende un dispensado a través de pasos por aberturas a diferentes ejes y el método para instalar el material en el dispensador, a los ojos del documento D1, la solicitud objeto de oposición se aparta del requisito más importante de patentabilidad, la NOVEDAD. En consecuencia, la solicitud colombiana objeto de oposición pretende la protección de un dispensador que hace parte del estado del arte, específicamente respecto a lo que dicta el documento D1, publicado antes de la fecha de prioridad.

2.5 Ahora bien los documentos D2 y D3, revelan dispensadores de material en rollo de retiro central hacia abajo, similar a lo expuesto en la solicitud objeto de protección. Por su parte el documento D2

revela según su descripción y dibujos, similarmente a la solicitud objeto de oposición, un surtidor 10 adaptado para surtir un material de hoja 20, donde el surtidor comprende una caja definida por la pared 40 y el soporte 30 que incluye una plataforma 18 configurada para sostener el material de hoja 20 sobre la misma; la plataforma 18 incluye una abertura 52; donde la caja está formada para incluir una lumbrera 14 de salida 62 y separada de la plataforma 18, la lumbrera 14 está colocada sobre la superficie 48; en donde el material de hoja colocado en el surtidor fluye entre la abertura 52 en la plataforma 18 y la lumbrera 14 de salida 62; donde la abertura 52 en la plataforma 18 forma una saliente ensanchada; donde la abertura 52 de la plataforma 18 está configurada para surtir material de hoja. Por otro lado, el documento D3 define según su descripción y dibujos un surtidor similar a la solicitud objeto de oposición, adaptado para surtir un material de hoja 22, donde el surtidor comprende una caja definida por las secciones de soporte 10 y compuerta 12 que incluye una plataforma 16 configurada para sostener el material de hoja 22 sobre la misma; la plataforma 16 incluye un orificio 24, donde la caja está formada para incluir una placa 32 de salida espaciada y separada de la plataforma 16; en donde el material de hoja 22 colocado en el surtidor fluye entre la abertura 24 en la plataforma 16 y la placa 32 de salida; donde la abertura 24 en la plataforma 16 forma una entrada 56; donde la abertura 24 de la plataforma 16 está configurada para surtir el material de hoja. Este documento D3, aprisiona el papel de manera similar a la solicitud objeto de oposición, donde placa 50, al cerrar la compuerta, dirige el papel hacia el centro para prepararlo para su retiro. Así las cosas, a partir de estos documentos D2 y D3 en combinación, se puede derivar evidentemente el arte de utilizar placas intermedias en

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dispensadores de papel en rollo de retiro central para controlar el movimiento de las hojas a surtir. Por lo tanto, lo expuesto en la solicitud colombiana 04061301, particularmente en las reivindicaciones 1 a 28, es obvio y se deriva evidentemente del arte anterior. De esta manera, la combinación del conocimiento revelado en las solicitudes D2 y D3 en conjunto, afecta de manera directa el requisito de ALTURA INVENTIVA de la solicitud colombiana que se pretende proteger.

- 2.6 En consecuencia y de acuerdo a lo descrito anteriormente, se deriva que la solicitud colombiana 04061301 no puede pretender un monopolio por patente toda vez que lo que pretende no cumple con los DOS de los tres requisitos necesarios para su protección.
- 2.7 Que por consiguiente, respecto a la solicitud pretendida se tiene que:

- 2.8.1. CARECE DE NOVEDAD: Según la decisión 486 de la Comunidad Andina de Naciones, Artículo 16.- *“Una invención se considerará nueva cuando no está comprendida en el estado de la técnica. 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.”*. A la fecha de prioridad, 28 de diciembre de 2001, ya era conocido, pues como se demostró, era parte del arte anterior la materia sobre la cual busca protección en el capítulo reivindicatorio con base en el documento D1.

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2.8.2. **CARENCIA DE ALTURA INVENTIVA**. Según la Decisión 486 de la Comunidad Andina de Naciones, Artículo 18.- “*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.*”. A la fecha de presentación, 28 de diciembre de 2001, el documento D2 y D3 en combinación, es posible deducir el uso de placas intermedias en dispensadores de papel en rollo para controlar el movimiento de las hojas a surtir.

2.9. Dado lo anterior, es posible deducir que la solicitud y lo reivindicado no es objeto de patentabilidad pues es contrario a lo que dicta la Decisión 486 de la Comunidad Andina de Naciones, Artículo 14.- “*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.*”. La solicitud pretendida no cumple con los dos de los tres requisitos de patentabilidad.

2.10. Por consiguiente, si se concede el registro solicitado se induciría al monopolio de un producto que no cumple con los requisitos primordiales exigidos por la mencionada Decisión 486.

2.11. Por todo lo anterior, atentamente solicito a usted que se sirva declarar fundada la presente oposición y negar el registro Patente de invención denominada “**SURTIDOR PARA MATERIAL EN HOJA**”, solicitud Colombiana que apareció publicada en la Gaceta de la Propiedad Industrial N° 544 del 30 de septiembre de 2004, en la página 327, bajo el NP 331.

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3. PRUEBAS

De conformidad con lo dispuesto por las normas vigentes, solicito a usted tener como prueba en este asunto los siguientes:

- D1: US 6'145.782 (2000-11-14)
- D2: US6'328.252 (2001-12-11)
- D3. EP0836852 (1998-04-22)

4. FUNDAMENTO DE DERECHO

Fundamento esta observación en las normas legales siguientes:

4.1. Artículo 42 de la Decisión 486 de la Comisión del Acuerdo de Cartagena.

4.2. En las demás normas concordantes.

5. ANEXOS

Para los efectos correspondientes anexo al presente, aquellas referenciadas en el capítulo de pruebas así como los siguientes documentos:

5.1. Recibo de pago expedido por el Fondo Especial de esa Superintendencia, en el cual consta que se ha pagado el valor correspondiente a la tasa por tramitación de esta oposición.

5.2. Copia de la oposición para el traslado al solicitante.

5.3. Poder para actuar a nombre de mi representada.

6. NOTIFICACIONES

Para efectos de notificaciones que por disposición del artículo 50 del Decreto 01 de 1984 debe hacer su Despacho, informo que mi representada y la suscrita recibiremos notificaciones en la Secretaría de su Despacho o en mis oficinas de abogado situadas en la carrera. 9 # 73-24 piso 3, de Bogotá.

Señora Jefe,

MAURICIO JARAMILLO C.

C.C. 80.421.942 USAQUEN

T.P. 74.555 CSJ

SHEET MATERIAL DISPENSER

CROSS REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Application No. 60/061,683, filed Oct. 10, 1997.

FIELD OF THE INVENTION

This invention generally relates to dispensers. More specifically, this invention relates to sheet material dispensers.

BACKGROUND OF THE INVENTION

Desirably, a sheet material dispenser provides material, such as tissue or paper towels. One type of sheet material dispenser may be designed for center feed rolls. Desirably, center feed rolls dispense material from their core rather than their periphery, as opposed to conventional rolls. During dispensing, the roll may be stationary as material is dispensed from its center. An advantage of center feed rolls is their dispensers do not require moving parts, such as handles and rollers to rotate the roll, which are typically required with conventional roll dispensers.

Occasionally, center feed roll dispensers are top loading devices that include a mounting plate, a platform, and a cover. Typically, the mounting plate attaches to a substantially vertical wall and is formed integrally with the platform. The platform may form a opening at its center and extend substantially horizontally from the mounting plate. The platform may form a flat surface for receiving a center feed roll. Normally, material from the roll is dispensed through the opening. The cover may pivotally connect to or be positioned upon the mounting plate. The cover may move pivotally forward and downward, or be completely removable, to expose the platform permitting the placement of a center feed roll. Once pivoted downward, the cover may be pivoted upwardly to conceal the roll within the dispenser. Often a key locks the cover to the mounting plate for preventing the theft of the roll.

Unfortunately, these types of dispenser designs suffer several disadvantages. In many cases, a locking mechanism, such as a key padlock or a combination lock, must be used to secure the roll within the dispenser. Losing the key or forgetting the combination may result in damage to the lock and/or dispenser when trying to open the cover. Another disadvantage may occur during servicing. Because a center feed roll provides material from its center, it may be necessary to view either its top or bottom side to check the amount of material available. Opening the cover may fail to reveal the roll's top or bottom side because the roll's top side is often too high to be viewed and the bottom side view is blocked by the platform. As a result, checking the amount of remaining roll material may require opening the cover and removing the roll from the platform. At a minimum, the service technician's efficiency is probably impacted. Additionally, a substantially used roll may collapse during handling when verifying the amount of remaining sheet material, potentially jamming the dispenser. A further disadvantage is the dispenser may fail to protect the roll during cleaning. During cleaning, water may be sprayed at or near the dispenser. Because the dispenser opens at the top, water collecting at the upper surface may leak through the seam between the cover and mounting plate, and reach the roll. Water reaching the roll may degrade or even destroy the installed roll.

Accordingly, a material dispenser for a center feed roll that eliminates the need for a locking mechanism, improves serviceability, and prevents moisture, such as water, from reaching the roll will improve over conventional roll dispensers.

SUMMARY OF THE INVENTION

The problems and needs described above are addressed by the present invention which provides a dispenser for center feed roll products. Desirably, the dispenser includes a base and a cover adapted to fit the base. The cover may further define a cavity to receive the center feed roll product. The base may further include a roll platform and a securing means. The securing means defining an aperture may be coupled to the roll platform and adapted to support a center feed roll product. In addition, the securing means may permit the installation of a roll product through the aperture and prevent the removal of the roll product.

The roll dispenser may further include a mounting member coupled to the roll platform. In addition, the securing means may further include a hinge which may pivot inward into the cavity permitting placement of the roll product within the dispenser and return to a dispensing position to secure the roll product for dispensing. Moreover, the securing means may further include at least one buttress coupled to the hinge to prevent the hinge from pivoting past the dispensing position.

In addition, the dispenser may further include a supporting means bearing the securing means. Additionally, the supporting means may be a second flap that may include a protrusion and a tab coupled to the base.

What is more, the roll dispenser may further include a door defining an aperture coupled to the base by a living hinge. Moreover, the door may further include a sealing member coupled to the door and a latching assembly coupling the door to the base. Also, the sealing member may be configurable to substantially seal the door aperture for preventing liquids from entering the dispenser.

Likewise, the dispenser may further include a door defining an aperture coupled to the base. The door may include a supporting means having a hinge support coupled to the door, an aperture disc coupled to the door and surrounding the door aperture to aid the loading of roll products, and a sealing member. What is more, the aperture disc may be constructed from an elastic material.

Moreover, the dispenser may further include a latching assembly coupling the door to the base so that the latching assembly may support the weight of the roll product inside of the dispenser.

Alternatively, the door may include a supporting means and a protruding member coupled to the door. The supporting means may further include a protruding member extending in a first direction. The protruding member coupled to the door and positioned in the aperture of the door may extend in a second direction substantially opposite of the first direction. As a result, a roll product withdrawn from the dispenser follows a serpentine path around the protruding member.

In addition, the cover may be constructed from a semi-transparent material for viewing the roll product within. Alternatively, the cover may be constructed from an opaque material forming a window for viewing the roll product within.

In another embodiment of the invention, the dispenser may include a base, a cover, a door, and a latching assembly.

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Desirably, the base further includes a mounting member, a roll platform, and a securing means defining an aperture. The mounting member and the securing means may be coupled to the roll platform. The securing means may permit the installation of a roll product through the aperture and prevent the removal of the roll product.

Desirably, the cover is adapted to fit the base. The cover may be constructed from a semi-transparent or translucent material for viewing the roll product within. Desirably, the cover defining an aperture is pivotally coupled to the base. The door may include a supporting means and a protruding member coupled to the door. The supporting means may further include a protruding member extending in a first direction. The protruding member coupled to the door and positioned in the aperture of the door may extend in a second direction substantially opposite of the first direction. As a result, a roll product withdrawn from the dispenser follows a serpentine path around the protruding members. The latching assembly may couple the door to the base and support the weight of the roll product inside of the dispenser.

In a further embodiment of the invention, the dispenser, desirably, includes a base, a cover, a door, and a latching assembly. The base may further include a mounting member, a roll platform, and a securing means defining an aperture. The mounting member and securing means may be coupled to the roll platform. The securing means may permit the installation of a roll product through the aperture and prevent the removal of the roll product. Desirably, the securing means includes a substantially circular member having a plurality of hinges, which pivot substantially upward permitting the placement of the roll product within the dispenser and return substantially horizontal for securing the roll product.

Desirably, the cover is adapted to fit the base. The cover may be constructed from a semi-transparent or translucent material for viewing the roll product within. The cover and base may be sized to receive roll products having a diameter between about 150 millimeters to about 225 millimeters and a width between about 5 millimeters to about 245 millimeters. Furthermore, it is contemplated that the cover and base may be sized to accommodate other roll sizes.

Desirably, the door defining an aperture is coupled to the base. The door may include a supporting means and a protruding member coupled to the door. The supporting means may further include a protruding member extending in a first direction. The protruding member coupled to the door and positioned in the aperture of the door may extend in a second direction substantially opposite of the first direction. As a result, a roll product withdrawn from the dispenser follows a serpentine path around the protruding members.

Desirably, the latching assembly includes a latch and a catch and couples the door to the base. In addition, the latching assembly may support the weight of the roll product inside of the dispenser.

In still another embodiment of the present invention, desirably the dispenser for sheet material products defines an aperture permitting only a substantially upward or inward installation of a sheet material product substantially within the dispenser.

These and various other advantages and features of novelty which characterize the invention are provided throughout this disclosure. However, for a better understanding of the invention, its advantages, and the objects obtained by its use, reference should be made to the drawings which form a further part hereof, and to the accompanying description of the invention.

DEFINITIONS

The term "sheet material" as used herein refers to a material that is thin in comparison to its length and breadth. Generally speaking, sheet materials should exhibit a relatively flat planar configuration and be flexible permitting folding, rolling, stacking, or the like. Exemplary sheet materials include, but not limited to, paper tissue, paper towels, label rolls, or other fibrous, film, polymers, or dispensing products.

The term "center feed roll product" as used herein desirably refers to sheet material wound cylindrically about a center, but permitting the removal of material from the center. Desirably, as the center feed roll product is consumed, sheet material eventually dispenses from the roll's periphery. An exemplary center feed roll product is shown in FIG. 28. Center feed roll products are also described by patent publications, such as UK Patent Application 2,308,144A published Jan. 6, 1997.

The term "mechanical fasteners" as used herein desirably refers to devices that fasten, join, connect, secure, hold, or clamp components together. Mechanical fasteners include, but are not limited to, screws, nuts and bolts, rivets, snap-fits, tabs, nails, loop fasteners, and interlocking male/female connectors, such as fishhook connectors. A fish hook connector includes a male portion with a protrusion on its circumference.

Inserting the male portion into the female portion substantially permanently locks the two portions together.

The term "hinge" as used herein desirably refers to a joined or flexible device that connects and permits pivoting or turning of a part to a stationary component. Hinges include, but are not limited to, metal pivorable connectors, such as those used to fasten a door to frame, and living hinges. Living hinges may be constructed from plastic and formed integrally between two members. A living hinge permits pivorable movement of one member in relation to another connected member.

The term "couple" as used herein includes, but not limited to, joining, connecting, fastening, linking, or associating two things integrally or intermittently together.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of one embodiment of a material dispenser housing a center feed roll within.

FIG. 2 is a front, elevational view of a base of one embodiment of the material dispenser.

FIG. 3 is a bottom, plan view of the base of one embodiment of the material dispenser.

FIG. 4 is a perspective view of the base of one embodiment of the material dispenser.

FIG. 5 is an inverted, perspective view of the base of one embodiment of the material dispenser.

FIG. 6 is a perspective, cross-sectional view of a base portion of one embodiment of the material dispenser.

FIG. 7 is a cross-sectional view of the base portion of one embodiment of the material dispenser.

FIG. 8 is a perspective view of the door and sealing member of one embodiment of the material dispenser.

FIG. 9 is a perspective view of the door and sealing member covering a door aperture of one embodiment of the material dispenser.

FIG. 10 is a perspective view of the door and an alternative embodiment of the sealing member of one embodiment of the material dispenser.

FIG. 11 is a perspective view of an alternative embodiment of a door for the material dispenser.

FIG. 12 is a perspective view of an alternative embodiment of a door for the material dispenser without a hinge support.

FIG. 13 is a bottom, perspective view of a hinge support.

FIG. 14 is a top, perspective view of a hinge support.

FIG. 15 is a cross-sectional view of the alternative embodiment of a door for the material dispenser.

FIG. 16 is a bottom, plan view of the alternative embodiment of a door for the material dispenser.

FIG. 17 is a perspective view of another embodiment of a material dispenser housing a center feed roll within. FIG. 18 is a front, elevational view of a base for the material dispenser.

FIG. 19 is a bottom, plan view of the base for the material dispenser.

FIG. 20 is a perspective view of the base for the material dispenser.

FIG. 21 is an inverted, perspective view of the base for the material dispenser.

FIG. 22 is a cross-sectional view of a door for another embodiment of the material dispenser.

FIG. 23 is a top, plan view of the door for another embodiment of the material dispenser.

FIG. 24 is a perspective view of the door for another embodiment of the material dispenser.

FIG. 25 is a side view of an operator installing a center feed roll into the material dispenser.

FIG. 26 is a perspective view of an alternative version of a securing means and door for another embodiment of the material dispenser.

FIG. 27 illustrates a plan view of a desirable center feed roll product to be used with the depicted dispenser embodiment.

FIG. 28 illustrates a perspective view of the center feed roll of FIG. 27 in use in a dispenser.

DETAILED DESCRIPTION

Referring now to the drawings, wherein the reference numerals designate corresponding structures throughout the views, and referring in particular to FIGS. 1-16, there is shown (not necessarily to scale) an exemplary improved material dispenser 40 for a sheet material product, such as a center feed roll product 42. The material dispenser 40 may include a substantially L-shaped base 44, a cover 62, a door 66 and a latching assembly 82. The base 44 and cover 62 may be constructed from metal, plastic, or other composite materials. Desirably, the base 44 is constructed from polypropylene and the cover 62 is constructed from polystyrene, polypropylene, polyethylene, or other thermoplastics. The cover 62 may connect to the base 44 using any suitable means, such as adhesives, welds, or mechanical fasteners. Alternatively, the cover 62 may be adapted to loosely fit over or formed integrally with the base 44. Regardless of how the cover 62 is connected, desirably the cover 62 and base 44 form a cavity 64 for housing the center feed roll product 42. In one embodiment, the cover 62 is constructed from a semi-transparent or translucent material permitting viewing of the roll product 42 within. Alternatively, the cover 62 may be constructed from an opaque material, and optionally, may surround a transparent material serving as a window.

As shown in FIGS. 2-3, the base 44 may include a roll platform 46, a securing means 52, and a mounting member

58. The roll platform 46 may be formed integrally with the mounting member 58. The roll platform 46 may be formed integrally with a track 92 of the latching assembly 82, which is described in further detail hereinafter. The mounting member 58 may form a plurality of mounting apertures 68a-f permitting anchoring of the member 58 with mechanical fasteners to a support structure, such as a wall. Alternatively and/or additionally, the mounting member 58 may be fixed to a support structure using any suitable means, such as adhesives or welds.

Desirably, the securing means 52 is formed integrally with the roll platform 46. Alternatively, the securing means may be connected to the roll platform 46 using any suitable means such as adhesives, welds or mechanical fasteners. The securing means 52, desirably substantially circular, may form a substantially circular aperture 48, may be positioned inside of the roll platform 46, and may include at least one hinge 54a-f. As shown in FIG. 3, an exemplary embodiment may include eleven hinges 54a-k hinging the substantially circular aperture 48 and may be formed integrally with the roll platform 46 by any suitable means, such as, for example, respective living hinges. The length of the hinges 54a-k may be varied depending on the diameter size of the inserted roll product 42. The securing means 52 may further include a respective buttress 56a-k mounted on the underside of each hinge 54a-k. Desirably, the hinges 54a-k only pivot upwardly, thereby allowing the insertion of the roll product 42 into the cavity 64, but not its removal. The buttresses 56a-k may reinforce the hinges 54a-k so they pivot only in one direction from a substantially horizontal or dispensing position. Alternatively, no buttresses 56a-k may be placed on the hinges 54a-k permitting the hinges 54a-k to pivot up or down from a substantially horizontal position.

Referring to FIG. 3, hinges 54a and 54k may have respective tapered edges 102a and 102k that terminate forming respective lips 104a and 104k. As a result, the hinges 54a and 54k desirably form an opening 106. Desirably, the opening 106 permits the removal of an operator's hand after installing the roll product 42 in the cavity 64. In addition, the opening 106 permits venting the excess of sheet material on the roll product 42.

Referring to FIGS. 1 and 8-9, the door 66 forming an aperture 68 may be formed integrally with the roll platform 46 or connected to the roll platform 46 using any suitable means, such as adhesives, welds, or mechanical fasteners. The door 66 pivotally opens by a living hinge 70, although other hinges may be used, such as a plurality of metal hinges, which permits the installing or viewing of the roll product 42.

The door 66 may include a supporting means 72, a door aperture disc 76, and a sealing member 78. The disc 76 may be substantially circular, but other shapes may be used. The disc 76 is desirably constructed from an elastomeric material, which aids in sealing sheet material. Exemplary elastomeric materials include, but are not limited to, urethane rubbers, natural rubbers, and A-B-A block copolymers. The supporting means 72 may include a mechanically circular hinge support 74 connected to the door 66, using any suitable means, such as welds, adhesives or mechanical fasteners. The support 74 may form a grooved section 86 and a channel 90. When the door is shut, desirably the support 74 presses against the undersides of the hinges 54a-k, thereby providing the hinges 54a-k added support for the weight of the roll product 42, which relieves pressure from the buttresses 56a-k during dispensing.

Desirably, the sealing member 78 is formed integrally with a strip 88, which resides within the channel 90 of the

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support 74 and connects to the support 74 using any suitable means, such as welds, adhesives, or mechanical fasteners. Alternatively, the strip 80 connects to the door 66 using any suitable means, such as welds, adhesives, or mechanical fasteners. When the aperture 68 is uncovered, the sealing member 78 may reside between the grooved section of the support 74 and the latching assembly 82. The sealing member 78 may be moved to seal the aperture 68 to prevent water from reaching the roll product 42 during cleaning. To seal the aperture 68, the door 66 is opened. Next, the sealing member 78 is removed from between the latching assembly 82 and support 74, and removed and positioned to cover the aperture 68 as shown in FIG. 9.

An alternative embodiment of the sealing member is illustrated in FIG. 10. A sealing member 94 may have a plurality of clips formed integrally with the door 66, desirably three clips 96a-c, permitting releasable connection with the door 66. The sealing member 94 is a discrete, removable unit permitting its placement over the aperture 68.

Referring to FIGS. 1, 3, and 7-9, the latching assembly 82 may include a latch 84, posts 108a-b, and the catch 92, and may be designed to support the weight of the roll product 42 placed inside the dispenser 40. In addition, the door 66 desirably forms a latch aperture 90. The posts 108a-b may be positioned in opposed relation and formed integrally with the door 66. Desirably, the substantially L-shaped latch 84 is secured pivotally at its convergence between the two posts 108a-b and includes a base 112 formed integrally with a post 114, which terminates forming protrusions 110a-b. The base 112 may reside within the latch aperture 90. The protruding catch 92 may be formed integrally to the underside of the base 112 and forces a door 100. Shutting the door 66 inserts the post 114 into the slot 100 of the catch 92. The weight of the latch 84 presses the protrusions 108a-b against the interior of the catch 92, thereby maintaining the door 66 shut. Releasing the latch 84 by pressing the base 112 through the latch aperture 90 pivots the post 114 freeing the protrusions 110a-b from the catch 92. Once the protrusions 110a-b are free of the catch 92, the door 66 may be opened permitting the placement or inspection of the roll product 42 within the dispenser 40.

Desirably, installing the roll product 42 in the dispenser 40 begins operation. Pressing the base 112 may release the latch 84 from the catch 92 resulting in the door 66 pivoting open. The roll product 42 may be installed in a substantially upward direction, similarly as depicted in FIG. 23, which will be described in further detail hereinafter. The roll product 42 may be inserted into the dispenser 40 past the hinges 54a-d.

Initially, when the roll product 42 contacts the hinges 54a-d, they may pivot upward from a substantially horizontal or dispensing position permitting the roll product 42 to pass. Once the roll product 42 passes the hinges 54a-d, the hinges 54a-d may return to their dispensing position, which in this desirable embodiment is substantially horizontal. Afterwards, the roll product 42 may be set upon the hinges 54a-d. The buttresses 56a-f aid in supporting the weight of the roll product 42. After insertion, the roll product 42 may be very difficult to remove, thereby deterring theft. Next, a sheet material portion 116 from the corner of the roll product 42 may be unrolled and fed through the aperture 68 in the door 66. Shutting the door 66 may permit operation of the dispenser 40.

Pulling the sheet material vertically downward unrolls portions of sheet material for use. Pulling the sheet material

at angle from vertical results in friction between the sheet material and door aperture 68. As a result, the sheet material may be torn separating a portion for use.

If verifying the amount of sheet material left on the roll product 42 is desired, releasing the latch 84 may open the door 66. Looking upward into the opening 186 may permit verifying the amount of sheet material left on the roll product 42. If washing the dispenser 40 is desired, sheet material may be pulled toward the roll product 42 through the aperture 68 and positioned inside of the dispenser 40. The sealing member 78 (or 94) may be placed over the aperture 68 and the door 66 may be shut. Vigorous washing of the dispenser 40 may be conducted, while minimizing the amount of water entering the cavity 64. After washing, the door 66 may be opened, the sealing member 78 (or 94) may be placed back to its original position, and the sheet material may be fed through the aperture 68. Closing the door 66 may permit dispensing to resume.

An alternative embodiment of the door 130 may be used with the dispenser 40 as shown in FIGS. 11-16. The door 130 may be formed integrally with the roll platform 46 or connected to the roll platform 46 using any suitable means, such as adhesives, welds, or mechanical fasteners. The door 130 pivotally opens by a living hinge 70, although other hinges may be used, such as a plurality of metal hinges, which permits the installing or viewing of the roll product 42. Desirably, the door 130 forms an aperture 144 and a latch aperture 152, and includes a supporting means 176, a protruding member 188, and posts 172a-d forming respective post apertures 174a-d.

Desirably, the supporting means 176 includes a substantially circular hinge support 178 forming an aperture 180 that may be connected to the door 130 using any suitable means, such as welds, adhesives or mechanical fasteners. In this desirable embodiment as shown in FIG. 13, the support 178 includes four posts 182a-d (posts 182a and 182d not shown) formed integrally on the underside of the support 178, a protruding member 184, and a view shield member 160.

Desirably, the support 178 connects to the door 130 by inserting posts 182a-d into respective post apertures 174a-d. Desirably, each support post 182a-d has a plurality of annular bulges 182a-d that seat within the annular grooves of the respective bores of the door posts 172a-d, locking the support posts 182a-d and door posts 172a-d together and thereby fastening the support 178 to the door 130. When the door 130 is shut, the support 178 may press against the undersides of the hinges 54a-d, thereby providing the hinges 54a-d added support for the weight of the roll product 42, which may relieve pressure from the buttresses 56a-f during dispensing. The view shield member 160 may be formed integrally with the underside of the support 178, and may prevent the viewing of the cavity 64 from underneath the dispenser 40 and debris from collecting between the hinge support 178 and the door 130. In this desired embodiment, the shield member 160 is generally U-shaped, but other shapes may also be used.

Referring now to FIG. 15, the protruding member 184 of the support 178 may extend in a first direction 186, which in this desired embodiment is substantially horizontal. The protruding member 188 of the door 130 may extend in a second direction 190, which in this desired embodiment is substantially horizontal and opposite of the first direction. These members 184 and 188 form a serpentine path 192 for a sheet of roll product 42 to travel from the roll product 42 to the user.

Typically, roll products 42 have sheet materials that vary not only in composition, but also in the structure of perforations between individual sheets. This variance affects the tearing of the sheet material into individual segments. As shown in FIG. 15, the support 178 and door 150 may be modified to vary a distance "A", which is the overlapping region of the protruding members 184 and 188, and to vary a distance "B", which is the distance, in this embodiment a vertical distance, between protruding members 184 and 188. Changing these distances will alter the resistance of the sheet through the serpentine path 192 to accommodate the varying separation strengths of sheet material. For example, if the separation strength of the sheet is relatively strong, the distance "B" may be minimized and/or the distance "A" may be maximized. Conversely, if the separation strength of the sheet is relatively weak, the distance "B" may be maximized and/or the distance "A" may be minimized. However, there are some considerations with regard to varying the distance "B". If the distance "B" is increased, the dispenser 40 side may be decreased as well. If the distance "B" is minimized, it may become difficult to hand feed sheet material through the path 192 to begin dispensing, as described further hereinafter.

The configuration of the door 150 and support 178 provide some advantages when separating individual segments of sheet material for use. When pulling apart the individual sheets, the perforations tear simultaneously rather than sequentially. Simultaneous tearing minimizes rips in the body of the sheets outside of the perforations, which is particularly useful with sheets having a tendency to tear along the length of the sheet. Furthermore, this simultaneous tearing mechanism may be used with offset two-ply outer feed rolls, which will be described in further detail hereinafter. Another advantage of this configuration is preventing the unrolling or twisting of material dispensed from a newly inserted center feed roll product 42. The material is dispensed flat and smooth without twists and excess dispensing of sheets. This prevents waste of roll product 42 material.

The latching assembly 82 may be coupled to the door 150 and operate the same as previously described. Desirably, the latching assembly 82 includes the latch 84, although the latch 84 is not shown in FIGS. 11-16.

Typically, installing a roll product 42 in the dispenser 40 may begin operation. Pressing the base 112 may release the latch 84 from the catch 82 resulting in the door 150 pivoting open. The roll product 42 may be inserted in a substantially upward direction, similarly as depicted in FIG. 25, which will be described in further detail hereinafter. Desirably, the roll product 42 is inserted into the dispenser 40 past the hinges 34a-t. Initially, when the roll product 42 contacts the hinges 34a-t, they may pivot upward permitting the roll product 42 to pass. Once the roll product 42 passes the hinges 34a-t, the hinges 34a-t may return in their dispensing position, which in this desirable embodiment is substantially horizontal. Afterwards, the roll product 42 may be set upon the hinges 34a-t. The hinges 34a-t may aid in supporting the weight of the roll product 42. After inserting the roll product 42, it may be very difficult to remove, thereby deterring theft. Next, a sheet material portion 116 from the center of the roll product 42 may be unrolled and fed through the serpentine path 192 formed by the support 178 and door 150 to the exterior of the dispenser 40. Shutting the door 150 may permit operation of the dispenser 40.

Pulling the sheet material perpendicular to the door 150 may feed material from the dispenser 40. If a segment of sheet material is desired, raising the material parallel to the door 150 and pulling may separate a segment.

If verifying the amount of sheet material on a roll product 42 is desired, releasing the latch 192 may open the door 150. Looking upward into the opening 106 may permit verifying the amount of sheet material left on the roll product 42. If washing the dispenser 40 is desired, sheet material may be pulled toward the roll product 42 through the serpentine path 192 and positioned inside of the dispenser 40. Shutting the door 150 may permit vigorous washing of the dispenser 40, while minimizing the amount of water entering the cavity 64. The configuration of the door 150 and support 178, closely forming the serpentine path 192, may prevent water from reaching the roll product 42. After washing, the door 150 may be opened and the sheet material may be fed through the serpentine path 192 to the exterior of the dispenser 40. Closing the door 150 may permit dispensing to resume.

Another desirable embodiment of a dispenser 200 for a sheet material product, such as a center feed roll product 212, is illustrated in FIGS. 17-26. The material dispenser includes a substantially U-shaped base 214, a cover 230, a supporting means 240, a door 234, and a latching assembly 260 as shown in FIG. 17. The base 214 and cover 230 may be constructed from metal or plastic. Desirably, the base 214 is constructed from polypropylene and the cover 230 is constructed from polyethylene, polypropylene, polyethylene, or other thermoplastics. The cover 230 may connect to the base 214 using any suitable means, such as adhesives, welds, or mechanical fasteners. Alternatively, the cover 230 may be adapted to loosely fit over or formed integrally with the base 214. Regardless of how the cover 230 is connected, the cover 230 and base 214 may form a cavity 232 for housing the center feed roll product 212. In one embodiment, the cover 230 is constructed from a semi-transparent or transparent material permitting viewing of the roll product 212 within. Alternatively, the cover 230 may be constructed from an opaque material, and optically, may simulate a transparent material serving as a window.

Desirably, the base 214 includes a roll platform 216, a securing means 222, and a mounting member 228 as shown in FIGS. 18-21. The roll platform 216 may be formed integrally with the mounting member 228. The roll platform 216 may be also formed integrally with a catch 268 of the latching assembly 260, which is described in further detail hereinafter. Desirably, the mounting member 228 includes a plurality of mounting apertures 242a-t permitting anchoring of the member 228 with mechanical fasteners to a support structure, such as a wall. Alternatively, the mounting member 228 may be fixed to a support structure using any suitable means such as adhesives or welds.

Desirably, the securing means 222 is formed integrally with the roll platform 216 as shown in FIGS. 19 and 20. Alternatively, the securing means 222 is connected to the roll platform 216 using any suitable means such as adhesives, welds, or mechanical fasteners. The securing means 222, desirably substantially circular, may form a substantially circular aperture 218, may be positioned inside of the roll platform 216, and may include at least one hinge 234a-t. Desirably, eleven hinges 234a-t ring the substantially circular roll platform 216 and may be formed integrally with the roll platform 216 by a respective living hinge as shown in FIG. 19. The length of the hinges 234a-t may be varied depending on the diameter size of the roll product 212. A respective buttress 224a-t may be mounted on the underside of each hinge 234a-t for reinforcement. Desirably, the hinges 234a-t may pivot upwardly from a substantially horizontal position, thereby allowing the insertion of the roll product 212 into the cavity 232, but not its removal.

Alternatively, on hinges 224a-e may be attached to the hinges 224a-e permitting the hinges 224a-e to pivot up or down from a substantially horizontal position.

Desirably, hinges 224a and 224k have respective tapered edges 272a and 272k that terminate forming respective tips 274a and 274k. As a result, the hinges 22a and 22k may form an opening 244. The opening 244 permits the removal of an operator's hand after installing the roll product 212 in the cavity 232. In addition, the opening 244 permits verifying the amount of sheet material on the roll product 212.

Desirably, the supporting means 240 includes a flap 250, a tab 254, a conical protrusion 252 forming an aperture 256, and an extension 258 as shown in FIG. 17. The substantially circular flap 250 may be formed integrally with the conical protrusion 252, tab 254, and extension 258. Although one tab 254 is shown in this desired embodiment, a plurality of tabs 254 may be formed integrally with the flap 250. Although the flap 250 in this desired embodiment is substantially circular, it may be designed in other shapes as well. The conical protrusion 252 may terminate in a circular edge 276 for tearing sheet material, which is described in further detail hereinafter. The extension 258 may extend through an aperture 278 in the roll platform 216 and form thereon, thereby connecting the flap 250 with the roll platform 216. The flap 250 may be secured by hooking the flap 250 at the extension 258 upward and raising the flap 250 to slip the tab 254 onto the securing means 222. The flap 250 may pivot against the undersides of the hinges 224a-e, thereby desirably providing the hinges 224a-e added support for the weight of the roll product 212 and relieving pressure from the buttresses 226a-e during dispensing. To remove the flap 250, the tab 254 may be unclipped and the flap 250 may be removed from the securing means 222.

The door 234 forming an aperture 236 may be formed integrally with the roll platform 216 or connected to the roll platform 216 using any suitable means, such as adhesives, welds, or mechanical fasteners. The door 234 may pivotally open by a living hinge 70, although other pivotal connections may be used, such as separate metal hinges, which may permit the installing or viewing of the roll product 212. Desirably, the door 234 includes a sealing member 246 as shown in FIGS. 22 and 34. The sealing member 246 may be formed integrally with the door 234 by a hinge, although other pivotal connections may be used.

Desirably, the latching assembly 260 includes a latch 262 and the catch 268 as shown in FIG. 19 and FIGS. 22-24. In addition, the door 234 may form a latch aperture 266. The substantially L-shaped latch 262 may be pivotally secured at its convergence in the door 234 with a hinge and may include a base 282 formed integrally with a post 284, which may terminate forming protrusions 286a-b. The base 282 may reside within the latch aperture 266. The corresponding catch 268 may be formed integrally in the underside of the base 214 and form a slot 290. Sliding the door 234 inserts the post 284 into the slot 290 of the catch 268. The weights of the latch 262 may press the protrusions 286a-b against the interior of the catch 268, thereby maintaining the door 234 shut. Releasing the latch 262 by pressing the base 282 through the latch aperture 266 may pivot the post 284 freeing the protrusions 286a-b from the catch 268. Once the protrusions 286a-b are free of the catch 268, the door 234 may be opened permitting the placement or inspection of the roll product 212 within the dispenser 200.

Desirably, installing the roll product 212 in the dispenser 200 begins operation. Pressing the base 282 may release the latch 262 from the catch 268 resulting in the door 234

pivoting open. If the flap 250 is secured to the securing means 222, unclipping the tab 254 from the securing means 222 may release the flap 250, permitting the lowering of the flap 250. The roll product 212 may be installed in a substantially upward direction 280, with a single hand if desired, by an operator 296, as depicted in FIG. 25. The roll product 212 may be inserted into the dispenser 200 past the hinges 224a-e laterally. When the roll product 212 contacts the hinges 224a-e, they may pivot upward permitting the roll product 212 to pass. Once the roll product 212 passes the hinges 224a-e, the hinges 224a-e may return to their dispensing position, which in this desirable embodiment is substantially horizontal. Afterwards, the roll product 212 may be set upon the hinges 224a-e. The buttresses 226a-e may aid in supporting the weight of the roll product 212. After inserting the roll product 212, it may not be removed, thereby deterring theft. Next, a material sheet portion 288 may be fed through the aperture 256 of the conical protrusion 252 past the flap 250. Afterwards, the sheet material portion 288 may be fed through the aperture 236 in the door 234. Sliding the flap 250 and door 234 may permit operation of the dispenser 200.

Pulling the sheet material vertically downward may unravel portions of sheet material for use. Pulling the sheet material at an angle from vertical may result in friction between the sheet material and the conical protrusion edge 276. As a result, the sheet material may tear separating a portion for use.

If verifying the amount of sheet material left on the roll product 212 is desired, releasing the latch 262 may open the door 234. Looking upward into the opening 244 may permit verifying the amount of sheet material on the roll product 212. If wishing the dispenser 200 is desired, the sheet material may be pulled toward the roll product 212 through the apertures 236 and 256, and positioned inside of the dispenser 200. The sealing member 246 may be pivoted over the aperture 236. Next the flap 250 may be secured to the securing means 222 and the door 234 may be shut. Vigorous washing of the dispenser 200 may be conducted, while minimizing the amount of water entering the cavity 232. After washing, the door 234 may be opened, the sealing member 246 may be pivoted backward to its original position, and the sheet material may be fed through the apertures 236 and 236. Afterwards, the flap 250 may be pivoted upward and secured to the securing means 222. Closing the door 234 may permit dispensing to resume.

Alternative embodiments the securing means and door are depicted in FIG. 26. Desirably, the securing means 222 includes a plurality of hinges 324 arranged in a substantially uniform circular pattern. The door 234 forming an aperture 236 may include a sealing member 346. Desirably, both the apertures 236 and sealing member 346 are substantially circular.

Desirably, cylindrical-shaped center feed roll products are used in preferred embodiments of the invention. These roll products may have dimensions of width, which is a distance between the circular ends of the roll product, ranging from about 5 to about 245 millimeters and diameter, which is a straight line passing through a center of one of the circular ends of the roll product, ranging from about 150 to about 225 millimeters. More desirably, these roll products may have dimensions of width ranging from about 50 to about 245 millimeters. Even more desirable, these roll products may have dimensions of width of about 200 millimeters and diameter greater than about 200 millimeters to about 250 millimeters.

Although several types of sheet material products may be used in the presented dispenser embodiments, such as sticks

of interfolded webs. One exemplary sheet material product is a center feed roll or barrel roll 400 illustrated in FIG. 27. The roll 400 has been unwound slightly from its outer surface to show the offset perforation arrangement. It should be understood that in use, the webs will be fed out from the inner surface, and the webs on the outer surface will usually be secured to one another so that the roll 400 does not unwind as shown in the figure.

Desirably, the roll 400 includes an inner web 402 and an outer web 404 each having perforations 406, which may allow individual sheets 408 to be detached from the webs 402 and 404. The individual sheets 408 have a length X. The roll 400 is made from paper and is suitable for use as a hand towel or other paper. The offset of the perforations 406 is shown as length Y, and in this desirable embodiment has an offset of 50:50.

FIG. 28 illustrates the roll 400 in use in a dispenser 410. The dispenser 410 is shown in outline only for simplicity of the figure. Desirably, inner and outer webs 402 and 404 are fed through the aperture 412 of the dispenser 410, and due to the offset perforations 406, the sheet 414 of the inner web 402 protrudes from the dispenser 410 further than the sheet 416 of the outer web 404. When a sheet is to be dispensed, the user may grip the sheet 414 and pull downwards until the friction force between the inner web 402 and the rim of the aperture 412 passes across perforations 406. Naturally, the sheet 414 will then detach leaving the end of the next sheet 420 of the inner web 402 at the aperture 412. While the inner web 402 is being pulled, the outer web 404 is simultaneously moved downwards by virtue of it being wound with the inner web 402, and by the time the sheet 414 has become detached, the sheet 416 will be protruding from the dispenser 410 by a smaller amount to the sheet 414 as shown in the diagram. Thus, the sheets are presented from alternate webs.

Kimberly-Clark Europe standard test procedure number KCN-060 can be used to test the detaching strength of the line of perforations. This test uses an Instron Universal Testing Instrument to simulate a detaching action between two adjacent sheets of the perforated product. For a 300 mm wide roll, the sheets are folded into thirds along the machine direction and placed in the 3 inch (76 mm) jaws of the Instron instrument before the test is begun. The jaws initially have a gap of 102±2 mm, and the top jaw is moved upwards at a constant rate of 25% inch/min away from the bottom jaw until the perforations are broken. Total energy (J/gmm), peak load (g), percentage stretch at peak (%) and total stretch at a percentage (Δ) can be measured.

The material tensile strength can also be measured in this way, using an unperforated sample, in the machine direction (normally the machine direction). In practice a 50 mm wide sample is tested, and the result multiplied by 4 to obtain the tensile strength for a 200 mm wide roll.

While the present invention has been described in connection with certain preferred embodiments, it is to be understood that the subject matter encompassed by way of the present invention is not to be limited to these specific embodiments. On the contrary, it is intended for the subject matter of the invention to include all alternatives, modifications and equivalents as can be included within the spirit and scope of the following claims.

What is claimed is:

1. A dispenser for center feed roll products, the dispenser comprising:

- a base, the base including
- a securing means defining an aperture, the securing means adapted to permit installation of a new fully

wound center feed roll product upwardly through the aperture while preventing removal of the center feed roll product downwardly therethrough and allowing dispensing of a discrete length of material from the center feed roll product downwardly therethrough, the securing means further adapted to support the center feed roll product thereon during dispensing; and

- a roll platform for retaining the securing means; and
- a cover adapted to mount to the base and defining a cavity within which the center feed roll product is contained for dispensing.

2. The roll dispenser of claim 1 further comprising a mounting member coupled to the roll platform.

3. The roll dispenser of claim 2, wherein the securing means comprises a hinge which pivots inward into the cavity permitting placement of the roll product within the dispenser and returns to a dispensing position to support the roll product for dispensing.

4. The roll dispenser of claim 3, wherein the securing means further comprises at least one barress coupled to the hinge to prevent the hinge from pivoting past the dispensing position.

5. The roll dispenser of claim 1, further comprising a supporting means for supporting the securing means.

6. The roll dispenser of claim 5, wherein the supporting means comprises a movable flap attached to the base, the movable flap having an aperture therethrough for selectively positioning products to the securing means, the aperture in the movable flap aligning with the aperture in the securing means to enable dispensing of the center feed roll product.

7. The roll dispenser of claim 1, further comprising a door joined to the base by a living hinge, the door having an aperture therethrough.

8. The roll dispenser of claim 7, wherein the door comprises:

- a sealing member attached to the door; and
- a latching assembly for securely latching the door in a closed position to the base.

9. The roll dispenser of claim 8, wherein the sealing member is positionable to substantially seal the door aperture for preventing liquids from entering the dispenser.

10. The roll dispenser of claim 1, further comprising a door coupled to the base and having an aperture there-through.

11. The roll dispenser of claim 10, wherein the door further comprises:

- a supporting means for contacting and supporting the securing means;
- an aperture disc coupled to the door and surrounding the door aperture to aid the sealing of roll products; and
- a sealing member.

12. The roll dispenser of claim 11, further comprising a latching assembly for latching the door in a closed position with respect to the base.

13. The roll dispenser of claim 11 wherein the aperture disc is constructed from an elastic material.

14. The roll dispenser of claim 10 wherein the door further comprises:

- a supporting means attached to the door wherein the supporting means further comprises a first protruding member extending in a first direction; and
- a second protruding member attached to the door and positioned in the aperture of the door and extending in a second direction substantially opposite the first direction whereby a roll product withdrawn from the dis-

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product is caused to follow a serpentine path around the first and second protruding members.

15. The roll dispenser of claim 1 wherein the cover is constructed from an opaque material having a window for viewing the roll product within.

16. The roll dispenser of claim 1 wherein the cover is constructed from a semi-transparent material for viewing the roll product within.

17. A dispenser for center feed roll products, the dispenser comprising:

a base further comprising a mounting member, a roll platform, and a securing means defining an aperture wherein the mounting member and the securing means are coupled to the roll platform permitting installation of a new fully wound center feed roll product upwardly through the aperture while preventing removal of the center feed roll product downwardly therethrough and allowing dispensing of a discrete length of material from the center feed roll product downwardly therethrough, the securing means further supporting the center feed roll product thereon during dispensing;

a cover adapted to mount to the base thereby defining a cavity within which the center feed roll product is contained for dispensing, wherein the cover is constructed from a semi-transparent material for viewing the roll product therein;

a door attached to the base, having an aperture therethrough, the door further comprising:

a supporting means having a first protruding member extending in a first direction; and

a second protruding member attached to the door and positioned in the aperture extending in a second direction substantially opposite the first direction whereby a center feed roll product withdrawn from the dispenser is caused to follow a serpentine path around the first and second protruding members; and

a latching assembly for latching the door in a closed position with respect to the base.

18. The dispenser of claim 17 wherein the securing means further comprises a plurality of cantilevered hinges each hinge attached at a first end to a portion of the securing means and extending radially inward toward the center of the securing means, wherein said hinges respectively have a plurality of hinge second ends, each second end opposite the respective first end and defines the aperture.

19. The dispenser for center feed roll products of claim 17, wherein the roll product has a width from about 100 millimeters to about 245 millimeters.

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20. A dispenser for center feed roll products, the dispenser comprising:

a base, the base comprising:

a securing means defining an aperture, the securing means adapted to permit installation of a new fully wound center feed roll product upwardly through the aperture while preventing removal of the center feed roll product downwardly therethrough and allowing dispensing of a discrete length of material from the center feed roll product downwardly therethrough, the securing means further supporting the center feed roll product thereon during dispensing; and

a cover fastened to the base and defining a cavity within which the center feed roll product is contained for dispensing.

21. The dispenser of claim 20 wherein the securing means further comprises a plurality of cantilevered hinges each hinge attached at a first end to a portion of the securing means and extending radially inward toward the center of the securing means, wherein said hinges respectively have a plurality of hinge second ends, each second end opposite the respective first end and defines the aperture.

22. The dispenser of claim 21 wherein the hinges pivot toward from a first position inward the cavity enabling placement of the center feed roll product therein, whereupon the hinges return to the first position to support the weight of the center feed roll product thereon.

23. The dispenser of claim 22 further comprising a door having an aperture therethrough, the door being fastened to the base, the aperture in the door aligning with the aperture formed by the cantilevered hinges to enable dispensing of a length of the center feed roll product.

24. The dispenser of claim 23 wherein the door further comprises a hinge support for connecting and supporting the plurality of cantilevered hinges.

25. The dispenser of claim 24 further comprising a positionable sealing member for selectively sealing the aperture to the door from liquid intrusion or enabling dispensing of the length of the center feed roll product.

26. The dispenser of claim 20 wherein at least a portion of the securing means pivots forward from a first position toward the cavity enabling placement of the center feed roll product therein, whereupon the portion of the securing means returns to the first position to support the weight of the center feed roll product thereon.

27. The dispenser of claim 26 further comprising a door having an aperture therethrough, the door being fastened to the base, the aperture in the door aligning with the aperture in the securing means to enable dispensing of the center feed roll product.

28. The dispenser of claim 27 further comprising a positionable sealing member for selectively sealing the aperture in the door from liquid intrusion or enabling dispensing of the length of the center feed roll product.

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the device about a horizontal upper axis located vertically substantially in line with the upper edge of the dispensing nozzle, and the element for closing the cover is arranged vertically between a high position of use and a low recharging position.

The axis of articulation of the element for closing the cover is substantially horizontal relative to the position of the edge of the upper edge of the nozzle which said closing element comprises, so as to ensure the element for closing the cover is in a gravity force in high position of use towards the low recharging position.

The dispenser comprises means for the automatic locking of the element for closing the cover in the position of use.

The means for the automatic locking of the element for closing the cover comprises an electrically actuable automatic locking mechanism comprising a solenoid valve which comprises with a complementary notch in the upper part of the roll.

The means for the automatic locking of the element for closing the cover comprises a locking and positioning finger which is arranged in the lower free end of the element for closing the cover and which, in the position of use, is received in a complementary receptacle of the body of the dispensing nozzle.

The lower free part of the housing comprises a perforated lower horizontal duct, through which the dispensing nozzle extends vertically downwards, so as to give access, from outside the housing, to the element for closing the cover, for the purpose of manipulating said closing element between its position of use and its recharging position.

The body of the dispensing nozzle is contained under the lower face of the support plate of the roll, so as to form a substantially vertical duct, which is vertically downward, with the lower part of the support plate, against a surrounding portion of the upper face of the horizontal bottom of the fixed first part of the housing.

The body of the dispensing nozzle comprises, at its peripheral upper end, means of the hinged type for connecting it and forming it under the lower face of the support plate of the roll.

The fixed first part of the housing comprises a rear vertical housing plate and a lower horizontal bottom, and all the other parts of the housing belong to the movable second part of the housing, said second part being mounted in an articulated manner on the fixed first part of the housing about a horizontal axis of articulation arranged in the lower part of the housing.

BRIEF DESCRIPTION OF THE DRAWINGS

Other characteristics and advantages of the invention will be gathered from a reading of the following detailed description, as understood which reference will be made to the accompanying drawings in which:

FIG. 1 is an exploded perspective view of the main components of a dispenser according to the invention, with the movable part of the housing forming a closing cover and located in the open recharging position;

FIG. 2 is a perspective front view, on a larger scale, which illustrates the mechanism consisting of the support plate and the dispensing nozzle, with the element for closing the cover of the lower, said closing element being illustrated in the high position of use;

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FIG. 3 is a partial view, similar to that of FIG. 2, in which the mechanism is shown in a perspective top view, that is to say from inside the dispensing nozzle;

FIG. 4 is a perspective bottom view of the dispensing nozzle with the element for closing the cover of the lower, said closing element being illustrated in the low recharging position; and

FIGS. 5 and 6 are views in vertical section in a plane perpendicular to the axis of articulation of the element for closing the cover, which show the mechanism illustrated respectively in FIGS. 2 and 4.

DESCRIPTION OF THE PREFERRED EMBODIMENT

In the following description, the words vertical, horizontal, upper, lower, front, rear, etc. will be used with reference to the figures in order to make it easier to understand the description, but in a meaning which does not limit the invention.

The dispenser 10 according to the invention, illustrated particularly in FIG. 1, consists essentially of a housing 12, of an intermediate piece 14 comprising the dispensing nozzle and assigned to an element 16 for closing the cover of the lower, and of a roll 18 which is intended for supplying a roll 20.

The function of the dispenser 10 is, in fact, to allow the progressive unwinding of the roll 20 which, here, is a roll consisting of a strip 22 of cellulosic wadding which is rolled about a vertical general axis A1.

The center of the roll does not have a side or a central axis, that is to say neither of a vertically oriented central axis, via which the inner face 24 of the strip 22 emerges, here vertically downwards.

The roll 20 is obtained by a cylindrical cover 26 and by two horizontal end faces, one of which is a horizontal lower horizontal face 28 of rounded general shape which can be seen in FIG. 1.

The housing 12 takes the form of two parts produced from plastic by injection molding.

A fixed first part 30 consists essentially of a rear vertical plate 32 and of a horizontal lower face 34 forming a horizontal bottom which is perforated centrally by a substantially vertical duct of large diameter 36.

The fixed part 30 makes it possible, by means not illustrated, to fix the housing 12 on a wall or to a ceiling by means of the rear vertical plate 32, and the fixed part 30 also comprises a lower lateral wall portion 38 in the form of an arc of a cylinder of low height.

The housing 12 also comprises a removable second part 40 which forms a closing cover and which consists essentially of a U-shaped lateral wall 42 and of a front transverse wall oriented vertically in the closed position of the roll 20.

The movable part forming a cover 40 is mounted in an articulated manner on the fixed part 32 about a horizontal axis of articulation A2 which is arranged in the vicinity of the bottom 34 of the fixed part 32 and in the vicinity of the horizontal lower edge 44 of the lateral wall 42.

As can be seen in FIG. 1, with the cover 40 in the open position, the latter extends vertically substantially below the fixed part 32, at the same time completely housing the upper part of the housing, without disturbing the unwinding of the latter.

Means, not illustrated, are, of course, provided for locking the cover 40 in the closed upper position, in which it is in

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wall 45 and its lower face 42 cooperate with the outer circumference 32 and the housing 34 in order to define a closed enclosure, in which, in particular, the coil 30 is received.

The plate 18 is a peripheral enclosure of a shape complementary in that of the horizontal bottom 34 of the housing 12, said plate 18 being constructed as to be capable of being received in the housing 12, with the outer peripheral part of its lower face 46 being vertically aligned with the upper face 48 of the housing 34, the two faces 46 and 48 being in contact by gravity when the support plate 18 is placed in the bottom of the housing 12.

The support plate 18 has a smooth upper face 46, on which the coil 30 rests with its face 28, and said support plate 18 is perforated centrally, this hole 44 being a central hole of substantially circular cross-section 38 for the passage of the face 24 of the strip 22 of the coil 30 through the hole 44.

The dispensing nozzle 14 is a plastic injection molding of a general shape of revolution about the vertical axis A1.

It comprises a peripheral cylindrical member 36, of which the upper edge which is in the form of a flange 38 is a support, here, three radial slots 38 which having the shape of the lateral type for forming the nozzle 14 under the support plate 18, these slots comprising, furthermore, complementary notches 40 formed under the lower face 46 of the plate 18.

By virtue of being so, acted by the action of the hydraulic type, the body of the nozzle 14 and the plate 18 form a substantially unitary structure particularly in the case of a nozzle 14 which is put in place in the housing 12, the dispensing nozzle 14 then extending vertically downward through the center 36 beyond the bottom 34 of the housing 12.

The nozzle 14 comprises, in a known general way, a central passage 42 of substantially general shape converging with a vertically downward orientation.

More specifically, the passage 42 consists of the lower wall 44 of a conical part in the form of a frustoconical disk 46 which is connected to the axis 34 by means of a connecting ring 48.

The passage 42 is delimited at its upper end by a smaller upper orifice 48 and by an edge 70 and at its lower end by a lower orifice 72 formed by the cylindrical wall of a lower free end portion 74 of cylindrical shape of the disk 46.

According to a known general arrangement, the diameter of the lower orifice 72 is markedly smaller than the inner diameter of the upper orifice 48, so that the strip 22 of the coil 30 passes through the passage 42 in a convergent manner progressively by the convergent conical frustoconical wall 44, so that the strip of the coil is gripped radially toward the axis A1 in the region of the lower orifice 72.

According to the invention, the inner conical wall 44 of the passage 42 is not complete, that is to say it comprises a central hole in the general form of a slot.

According to one aspect of the invention, the central hole 50 does not have parallel edges, that is to say it is delimited by two opposite edges 52 which widen vertically from the bottom toward and radially from the inside outward.

Thus, when seen in a top view along the axis A1 or in a side view in the direction 13 of FIG. 4, the projection of the central hole 50 delimited by the edges 52 has a substantially circular profile.

Then, the frustoconical section of which 14 of the disk 46 separating the two opposite edges 52 of the upper orifice 70

has a diameter markedly greater than its width 12 at the lower end of the slot 50, that is to say at the lower orifice 72.

As can be seen in the Figures, the slot or central hole 50 is vertically downward.

The shaping as a triangle and the dimensioning of the edges 50 are such that it is possible to pass the strip 22 of the coil through the center 38 vertically from the top downward, without gripping it or compressing it radially, then to introduce it into the passage 42 and, in particular, into the lower orifice 72, then introducing it radially in the direction of the axis A1 into the center.

By virtue of the design according to the invention, it is possible to put the coil 30 in place on the support plate 18, then close the housing 12 and subsequently pull the strip 22 through the central hole 50 in order to place it vertically under the support plate 18, the coil 30 and introduce it into the passage 42, this taking place from the lower face of the housing 12 through which is a result of the effect 36. The dispensing nozzle 14 extends vertically downward.

According to one characteristic of the invention, the central hole 50 is oriented in a vertical plane perpendicular to the plate of the support plate 18 of the housing 12, that is to say the central hole 50 is formed in the rear part of the passage 42, said rear part being the wall.

During use, when a consumer pulls on the free end 24 of the strip 22 of the coil 30, said free end passing through the passage 42, he does, in fact, pull, that is to say toward him, or slightly laterally, relative to the nozzle. Thus, the strip 22 is drawn in frictional contact with the convergent conical inner wall 44 of the dispensing nozzle 14, that is to say with a conical surface, whereas a consumer, while the free end part is in the opposite side toward the rear.

Thus, the central length of the coil, the shape of paper 24 is in contact with a perfectly smooth surface which is not liable to damage it.

According to another aspect of the invention, a sliding element 16 is provided for uncoupling the passage 42 of the central hole 50.

The sliding element 16 is an element which is disposed on the dispensing nozzle 14 and which is provided in the form of a plastic injection molding of a shape substantially complementary in that of the nozzle 14.

The plate 16 for closing the central hole 50 is connected in an articulated manner relative to the body of the dispensing nozzle 14 about a horizontal axis of articulation 18 which is parallel to the plane of the vertical bracket 32 of the housing 12, that is to say perpendicular to the main vertical plane of the nozzle 14.

As can be seen in the Figures, the plate 16, in addition to its function as an introduction and support to the wall 44 of the passage 42, is also intended to be a substantially cylindrical element formed by the disk 34 and the ring 48 which are put on with a vertically oriented section having parallel edges 50 and 52. In order to impart flexibility to the body of the nozzle 14, the edges 50 of the disk are connected to each other by means of an upper circumferential 54 which extends in the same plane as the edge 52.

The circumferential 54 comprises, in its lower part, a hollow semi-circular 56 open vertically upward and forming a receptacle for a horizontal rod 58 extending in the sliding element 16 and serving the means of articulation of the plate 16 relative to the nozzle 14, about the axis A3.

More specifically, the element 56 consists of two half receptacles which are arranged laterally opposite one another each of which receives one lateral end of the rod 58, thus forming a U-shaped element.

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The element 16 for closing the curtain 10 comprises an active coil portion 110 which has a profile complementary to that of the element 14 and which in the closed state, by two opposite lateral wings 111 complementary in the shape of the element 14, is held in a way that, in the closed position of the element 16, the wings 111 and 112, this active portion 110 forms the complement to the element 14 so as to form a passage 113 in the face of a complete plane in each of the elements 14, 16, the wings 111 and 112 being in an opposed position relative to the wings 111 and 112 of the passage 113 via the element 14.

At its lower end the 114 of the element 16, the active portion 110 comprises a locking and positioning finger 114 which, in the closed position of the element 16, is received in its complementary semi-cylindrical receptacle 115 formed in the lower face of the element 14 in the vicinity of the cylindrical part 14 (see FIGS. 2 and 4).

In order to connect the portion 110 of the closing element 16 to its installation rod 11, said portion is connected by two lateral arms 116 and by a flexible chain section 117 which is supported by a support ring 118 to the ring 11 of the element 14 of the body of the element 16.

A bracketing rib 119, which extends in a vertical plane, connects the active portion 110 to the immediately adjacent ring section which comprises, at its upper end, a finger 114 for the automatic locking of the closing element 16, said finger being received, in the position of rest and as may be seen particularly in FIG. 3, in a complementary receptacle 118 formed by a cup 118 produced axially with the support plate 11 by injection molding.

The rib 119 also has an asymmetrical shape to make it easier to close the element 16.

The locking finger 114, in the form of a locking nose, is characterized in such a way that it is locked automatically during the closing movement of the closing element 16, that is to say when the finger is pivoted clockwise from the position which it occupies in FIG. 4 to the position which it occupies in FIG. 5.

In order to have access to the locking means consisting of the nose 114, for the purpose of opening the closing element 16 in the counter-clockwise direction about its axis A3, as seen in FIG. 4, the hole 113 of the active portion 110 is situated in the support plate 118, and, toward the rear, a cleavage 120 which, when the housing 12 has been opened, makes it possible to release the finger 114 so as to ensure the opening of the closing element 16 which pivots counter-clockwise about the axis A3 by gravity.

This automatic pivoting is obtained by virtue of the fact that the rib 119, which is fully opened, acts in a principal way and therefore the action of gravity is offset radially toward the C.A.C. of the axis A3.

The closed and automatic locking of the element 16 can be obtained in many ways: the closed housing 12 is to be kept below the line, while still having a visual check of the correct position of the free end of the strip 24 in the passage 113 before the closing of the element and during the closing operation, that is to say without the risk of jamming the strip 24 between the element 16 and the active semi-cylindrical part 110 of the closing element 16.

Designing in the form of a semi-cylindrical plate 13 and the active portion 110 comprises an articulated closing element 16 which is possible to use the same housing 12 with the element 16 in its closed position bottom 34 for another type of dispenser, that is to say, for example, by replacing the semi-cylindrical part 110 by an element comprising an outlet passage arranged vertically downward, with means for sealing the same at the periphery of the lowermost orifice of the passage, for example provided with a sleeve.

What is claimed is:

1. A dispenser (10) of individual sheets by unrolling from the center of a spool in roll form (20), without a central tube, consisting of a plurality of successive sheets forming a coiled strip (22), a free end (24) of which projects toward the outside of the roll from said center, comprising:

a dispenser housing (3) comprising a fixed base part (32) and a rotatable support part (34) mounted in an articulated manner relative to the fixed part between an open position for unrolling the dispenser and a closed position in which said support part defines, with the base part (32), an upper compartment for winding in a vertical position the roll in its entirety;

a lower support plate (11) which is carried by the fixed part (32) of the housing and which supports vertically a lower end (24) of the roll and comprises a hole (58) for the passage of the strip (22, 24);

and a fixed dispensing nozzle (14) which is arranged below the lower support plate and which defines a downwardly convergent passage (62) of substantially general shape, an upper inlet orifice (70) of which is situated in the extension of the hole (58) in the lower support plate, so as to guide the strip (22, 24) toward a lower outlet orifice (72) of reduced diameter, and which comprises a generally vertically oriented channel (52) in the general face of a plate which extends beyond the upper inlet (70) and lower orifice (72) without, in order to make it easier for the free end (24) of the strip of a roll to be introduced into the passage (62) of the dispensing nozzle (14);

wherein the width (11) of the nozzle (14) at the upper inlet orifice (70) is markedly greater than its width (12) in line with the lower outlet orifice (72), into which said nozzle issues vertically downward, so as to make it possible to introduce the free end (24) of the strip (22) vertically from the bottom upward through the orifice (70) and then radially toward the axis (A1) of the dispensing nozzle (14);

the nozzle (14) is formed in a part of the passage which is located toward a rear vertical bottom (34) of the fixed part (32) of the housing (12), by means of which bottom the housing is fastened to a wall or to a support, in such a way that, during use, this portion of the body which passes vertically through the dispensing nozzle (14) cooperates with a portion of the lower wall (64) of the passage (62).

2. The dispenser as claimed in claim 1, wherein the dispensing nozzle (14) comprises an element (16) for closing the nozzle (14), which has a shape complementary to that of the nozzle and which is mounted in an articulated manner (A3) relative to the body of the dispensing nozzle (14) between a position of rest, in which the element (16) is closed and in which the passage (62) is delimited by a semi-cylindrical inner wall, and a releasing position, in which said closing element is pivoted in order to allow the passage (62) for the purpose of introducing the free end (24) of the strip (22).

3. The dispenser as claimed in claim 2, wherein the element (16) for closing the nozzle (16) is mounted in an articulated manner relative to the body of the dispensing nozzle (14) about a horizontal upper axis (A3) located vertically substantially in line with the upper inlet orifice (70) of the dispensing nozzle, and wherein the element (16) for closing the nozzle (16) is mounted slidably between a high position of rest and a low releasing position.

4. The dispenser as claimed in claim 3, wherein the axis (A3) of articulation of the element (16) for closing the nozzle

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(101) is often axially movable relative to the portion of the upper of the upper and lower of the frame which will always extend downwards, so as to allow the element for closing the door to fall by gravity into a high position of the frame in low loading position.

3. The dispenser is claimed in claim 2, which comprises means (105, 106, 107, 108) for the automatic locking of the element (101) for closing the door in the position of use.

4. The dispenser is claimed in claim 3, wherein said means for the automatic locking of the element (101) for closing the door (103) comprises an electrically actuable automatic locking tab which comprises a catching nose (114) which cooperates with a complementary notch (115, 116) in the support plate (104) of the roll (200).

5. The dispenser is claimed in claim 3, wherein the means for the automatic locking of the element for closing the door comprises a locking and positioning finger (109) which is actuated at the lower free end of the element (101, 102) for closing the element (101) and which, in the position of use, is received in a complementary recess (107) of the body (105, 106) of the dispensing member (104).

6. The dispenser is claimed in claim 2, wherein the fixed free part (101) of the frame comprises a perforated (106) lower horizontal bottom (104), through which the dispensing member (101) extends vertically downwards, so as to give access, from outside the housing, to the element (101) for

closing the element (101) for the purpose of unloading and also to allow access to the portion of the roll in a loading position.

7. The dispenser is claimed in claim 6, wherein the body of the dispensing member (101) is located under the lower base (106) of the support plate (104) of the roll (200), so as to form a recessed cavity which bears vertically downwards, with the lower portion of the support plate, against a complementary portion of the upper base (105) of the housing between (101) of the fixed free part (101) of the housing.

8. The dispenser is claimed in claim 7, wherein the body of the dispensing member (101) is, in particular, a perforated member of the type for mounting and (101) is a member of the lower base (106) of the support plate (104) of the roll (200).

9. The dispenser is claimed in claim 1, wherein the fixed part of the housing (200) comprises a rear vertical locking plate (32) and a lower horizontal bottom (34), and wherein all the other parts (30, 31, 33) of the housing belong to the movable forward part (36) of the housing, said movable part being situated in an articulated manner on the fixed part of the housing about a horizontal axis of inclination (A2) arranged in the lower part of the housing.

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(54) **DISPENSER OF PAPER SHEETS IN ROLL FORM WITH CENTRAL LAMINATION**

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(*) **Notation:** Reference to any drawing in this patent is indicated or referred under 35 U.S.C. 1340 by its figure.

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(57) ABSTRACT

A dispenser of individual sheets by unrolling from the outer of a product in roll form, without a central core, having a plurality of sections which forming a central strip, a free end of which projects toward the outside of the roll from the center, of the type including a fixed dispensing device which defines a passage of substantially general shape and which includes a generally vertically oriented means to make it easier to introduce the free end of the strip of a roll into the passage, the width of the means in the vicinity of the upper orifice of the passage being notably greater than its width in line with the lower orifice of the means.

11 Claims, 8 Drawing Sheets

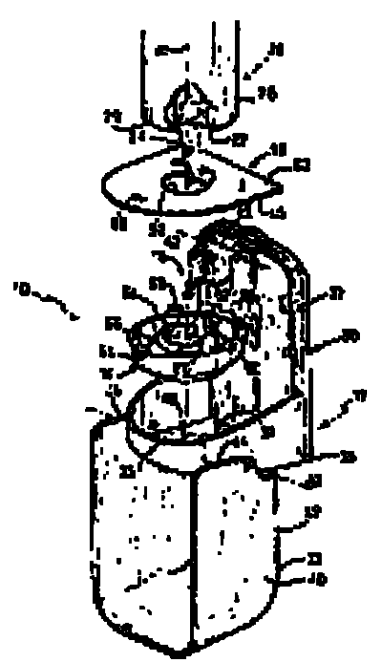


FIG. 2

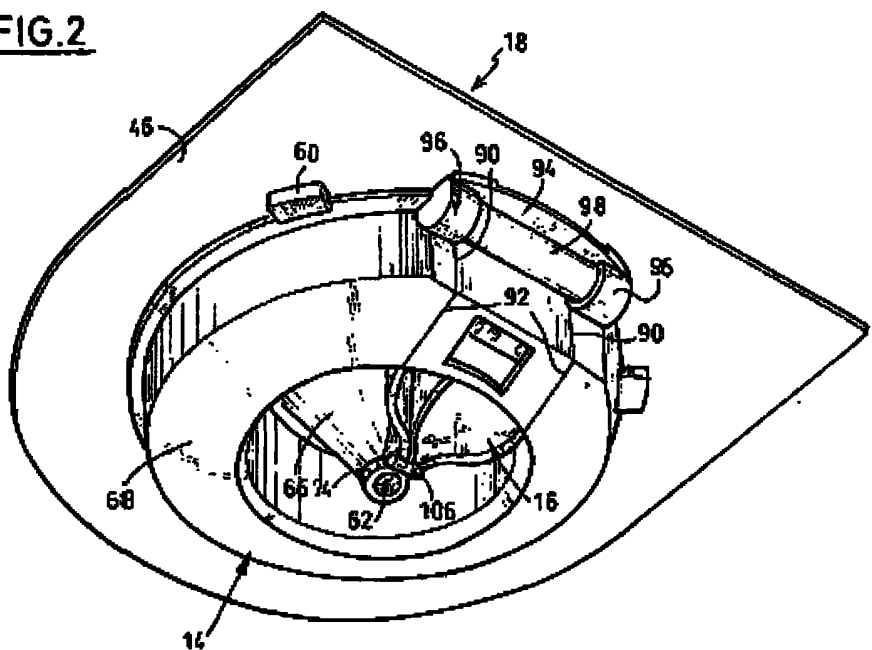
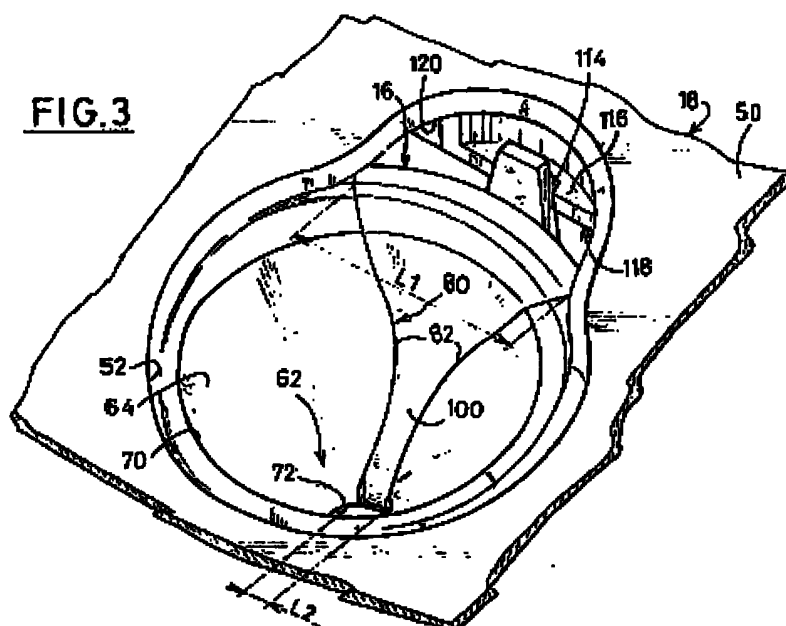


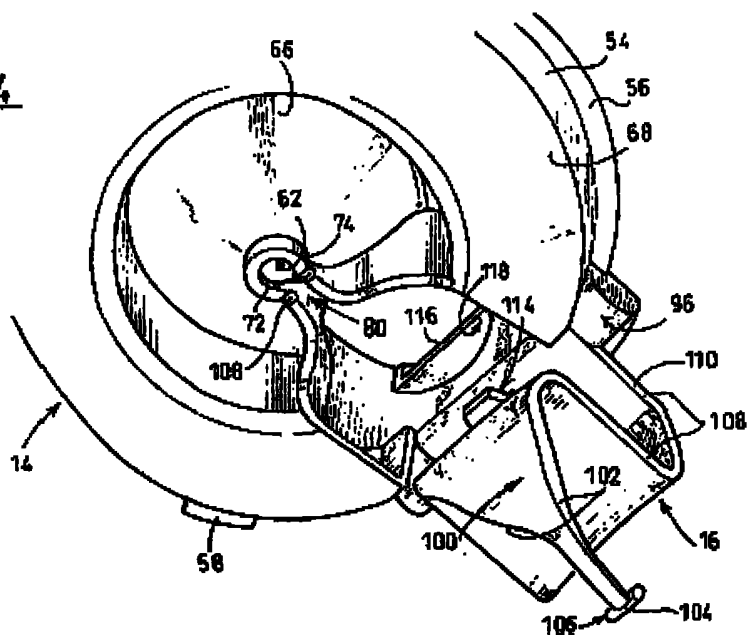
FIG. 3

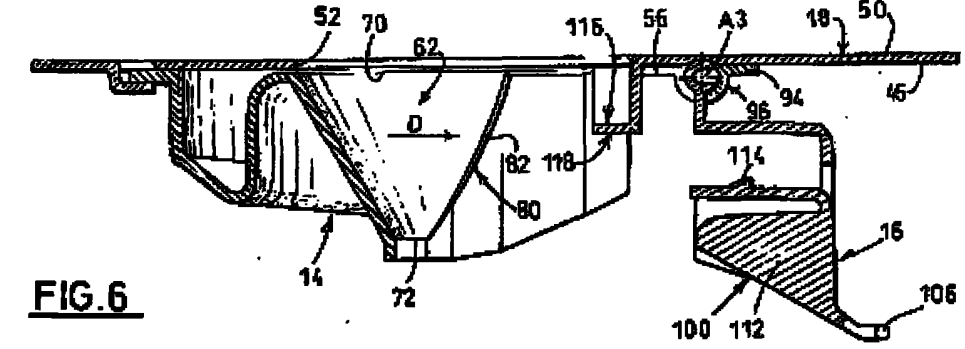
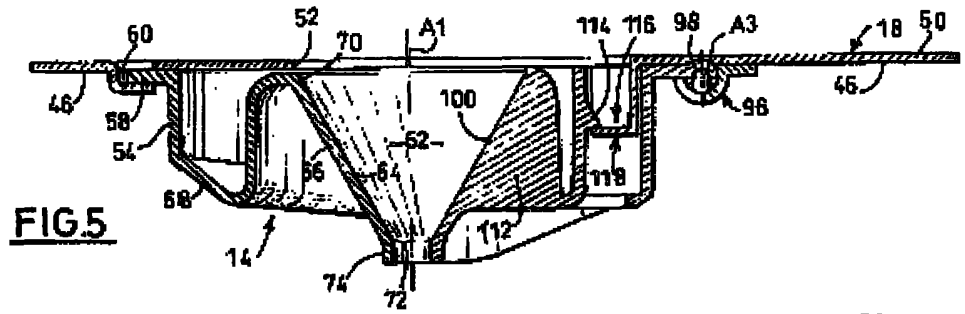


110

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FIG. 4





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US006145782A

United States Patent [19]
King et al.

[11] **Patent Number:** 6,145,782
[45] **Date of Patent:** Nov. 14, 2000

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[54] **SHEET MATERIAL DISPENSER**

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[73] **Assignee:** Kimberly-Clark Limited, Northop, United Kingdom

[21] **Appl. No.:** 09/113,858

[22] **Filed:** Jul. 10, 1998

Related U.S. Application Data

[60] **Provisional application No.** 60/061,683, Oct. 10, 1997.

[51] **Int. Cl.⁷** B65H 16/02; B65H 18/02

[52] **U.S. Cl.** 242/593; 312/34.8; D6/522; D6/523

[58] **Field of Search** 242/593, 588.3, 242/597.7; 312/34.8; D6/518, 521, 522, 523

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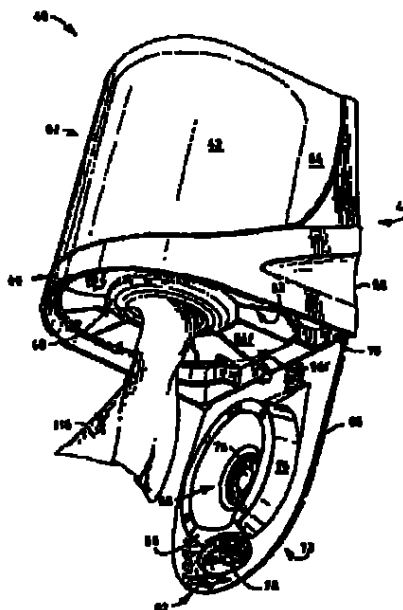
PCT Counterpart International Search Report mailed Jan. 13, 1999.

Primary Examiner—John Q. Nguyen
Attorney, Agent, or Firm—Scott B. Garrison

[57] **ABSTRACT**

A dispenser for center feed roll products includes a base and a cover adapted to fit the base. The cover further defines a cavity to receive the center feed roll product. The base further includes a roll platform and a securing means. The securing means defining an aperture is coupled to the roll platform and is adapted to support a center feed roll product. In addition, the securing means permits the installation of a roll product through the aperture and prevents the removal of the roll product.

28 Claims, 20 Drawing Sheets



114

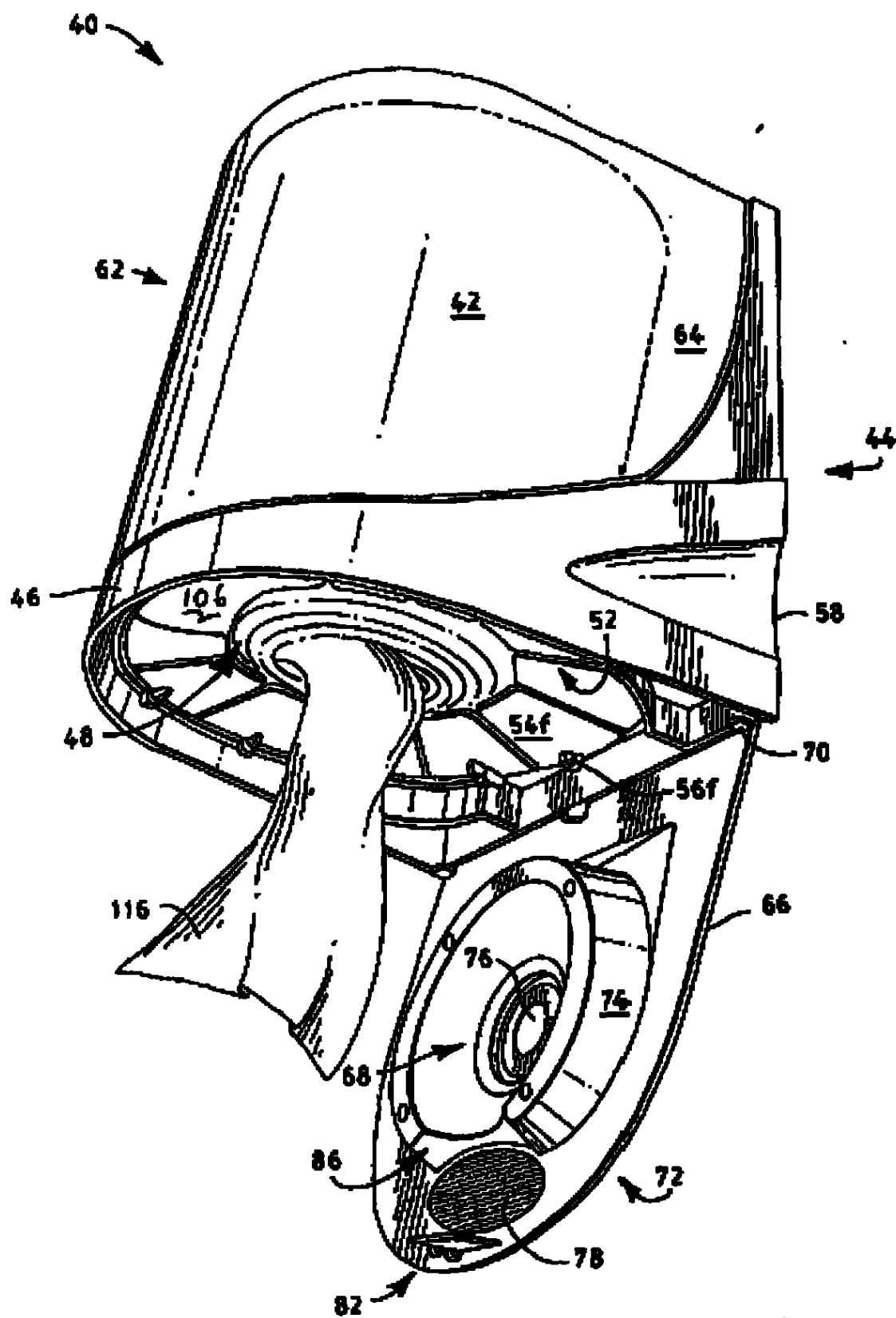


FIG. 1

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115

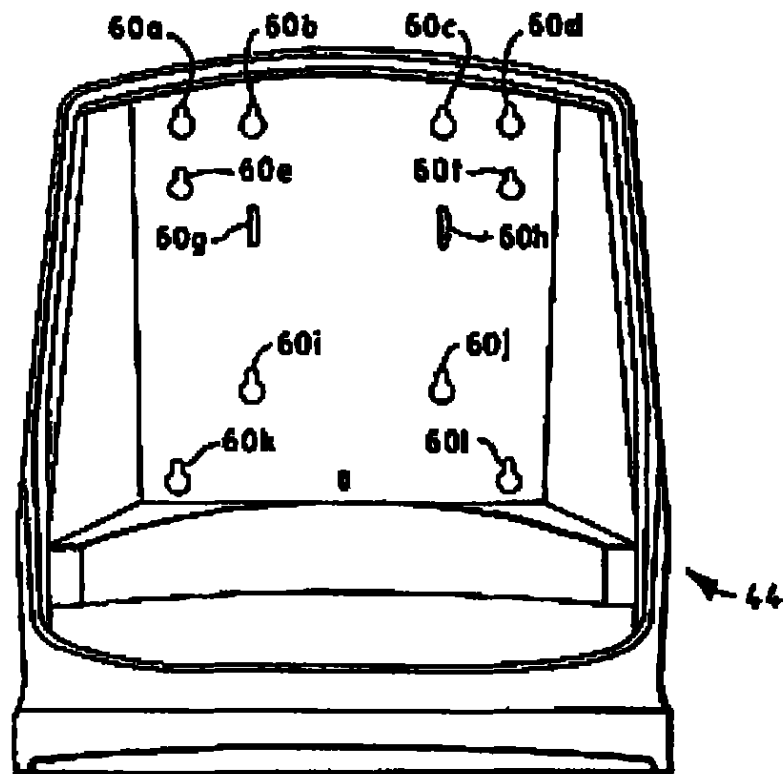


FIG. 2

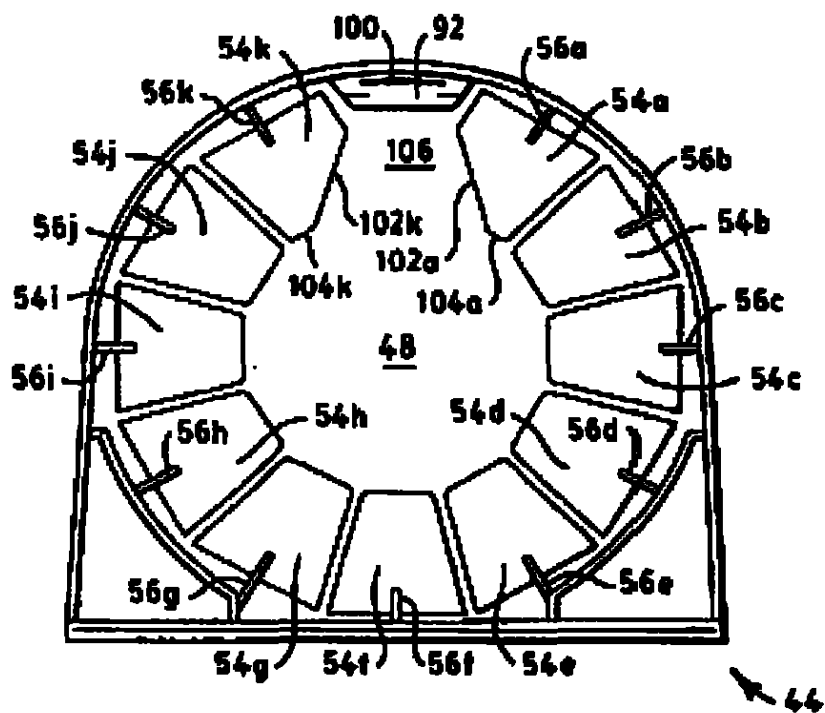


FIG. 3

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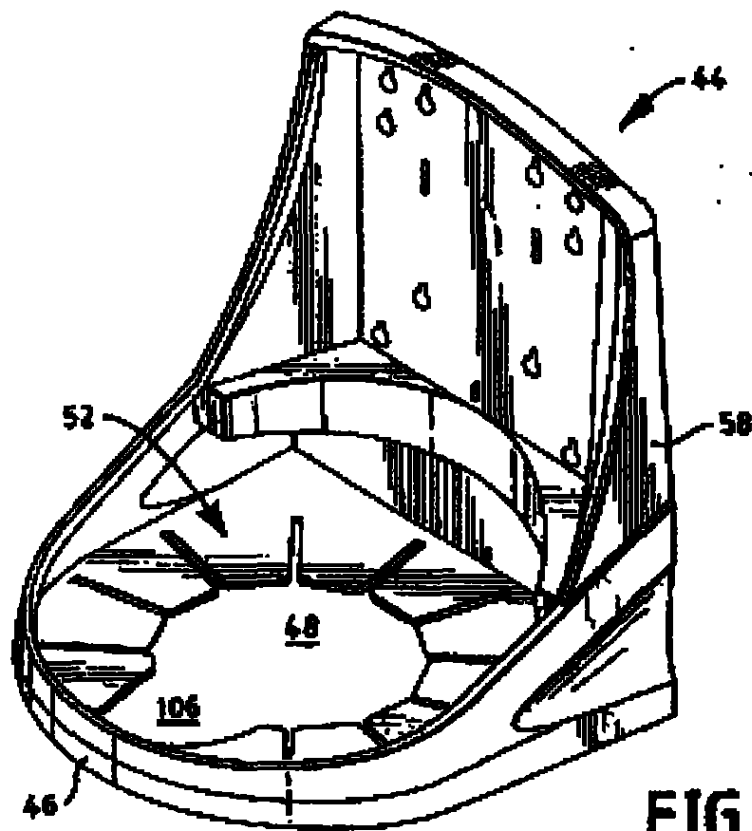


FIG. 4

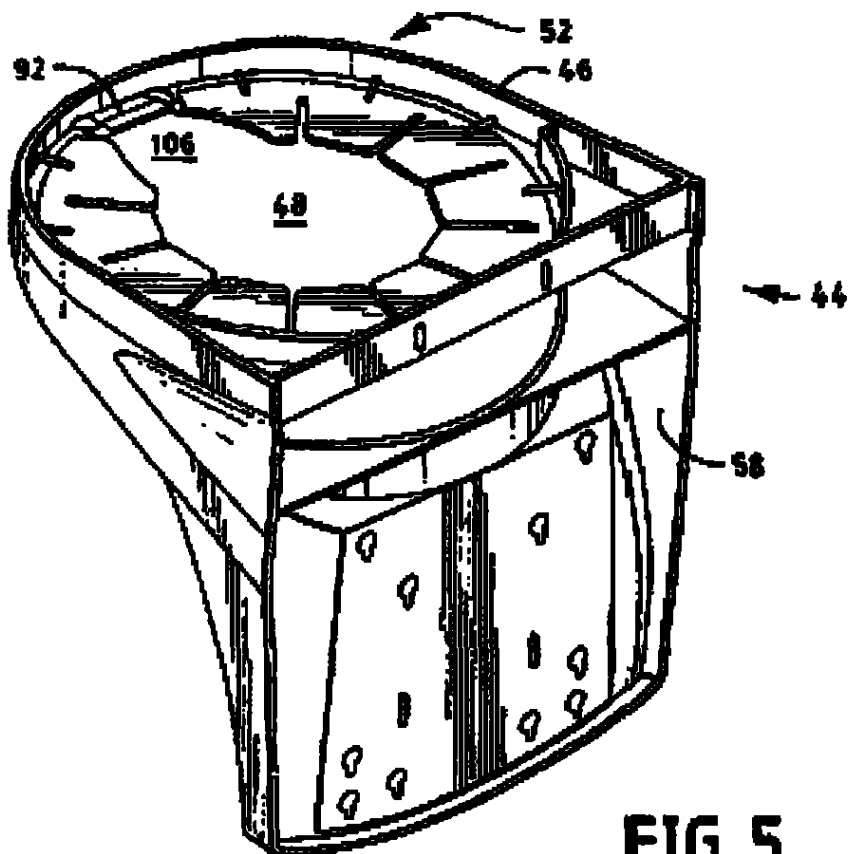


FIG. 5

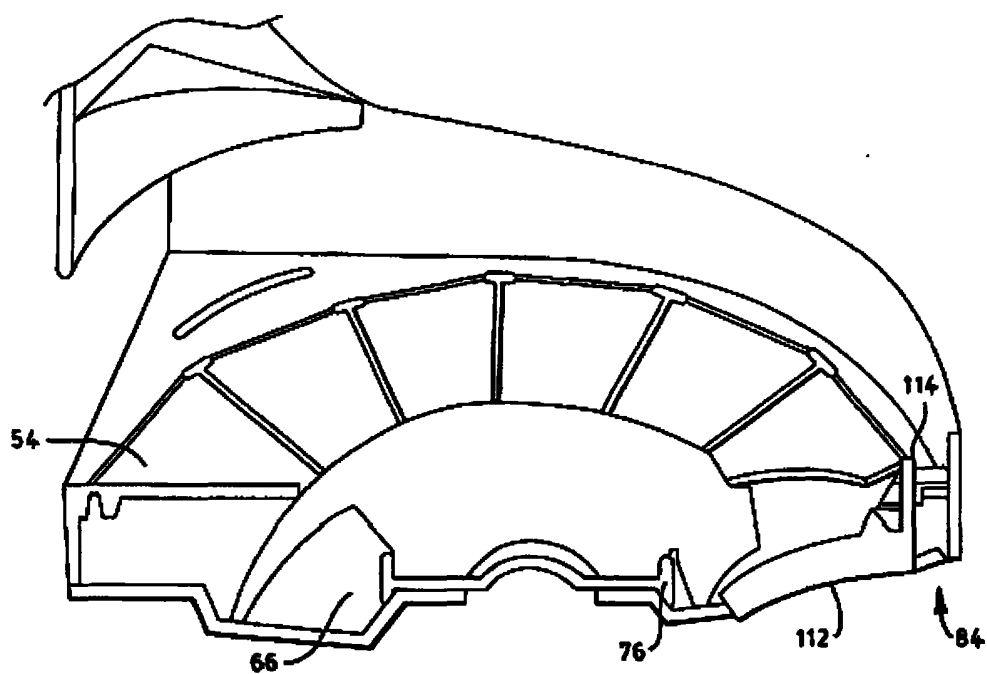


FIG. 6

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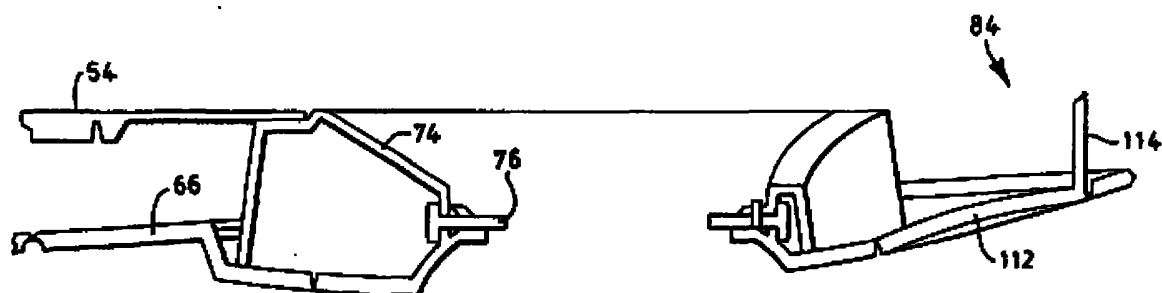


FIG. 7

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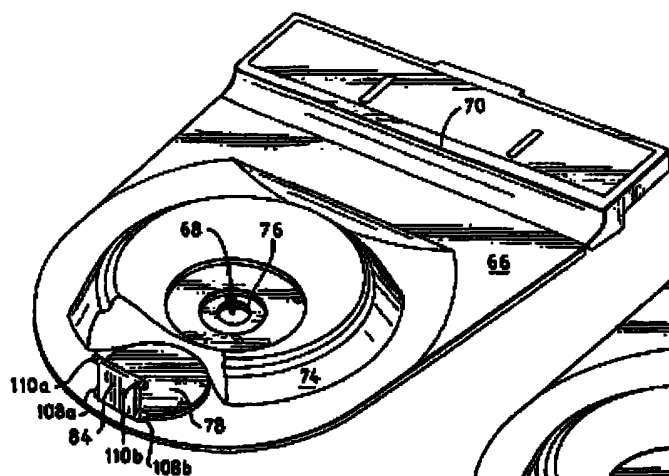


FIG. 8

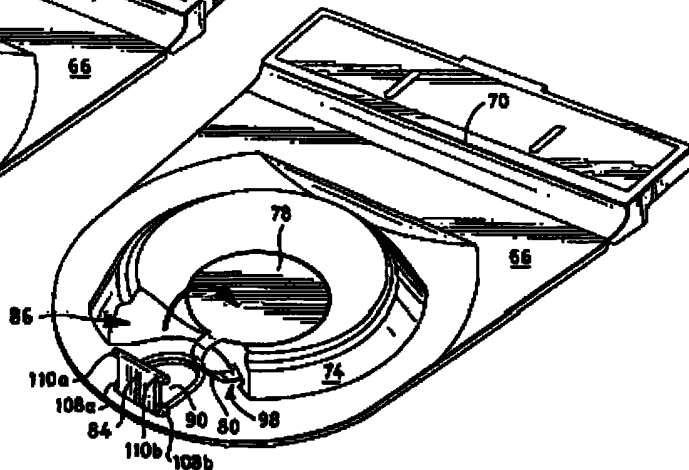


FIG. 9

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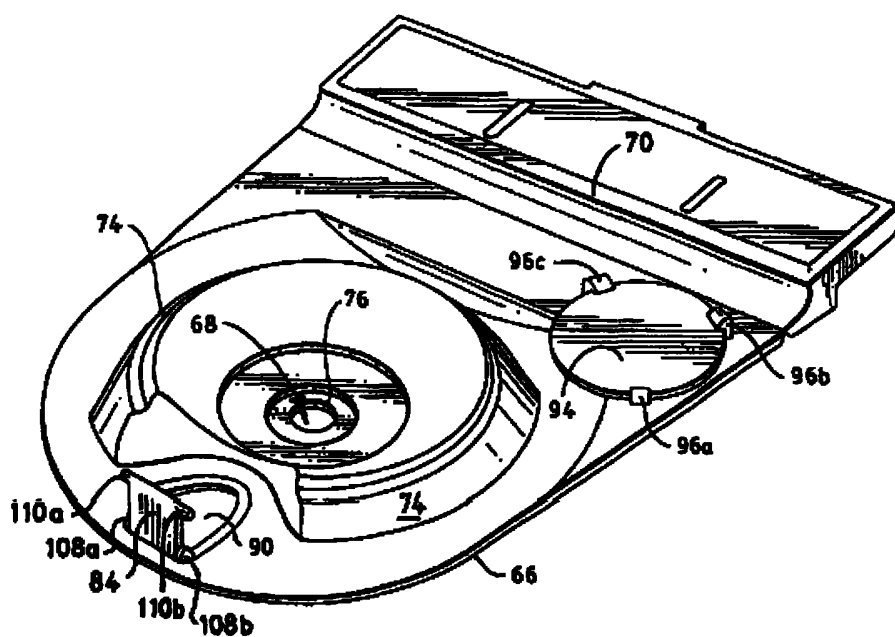


FIG. 10

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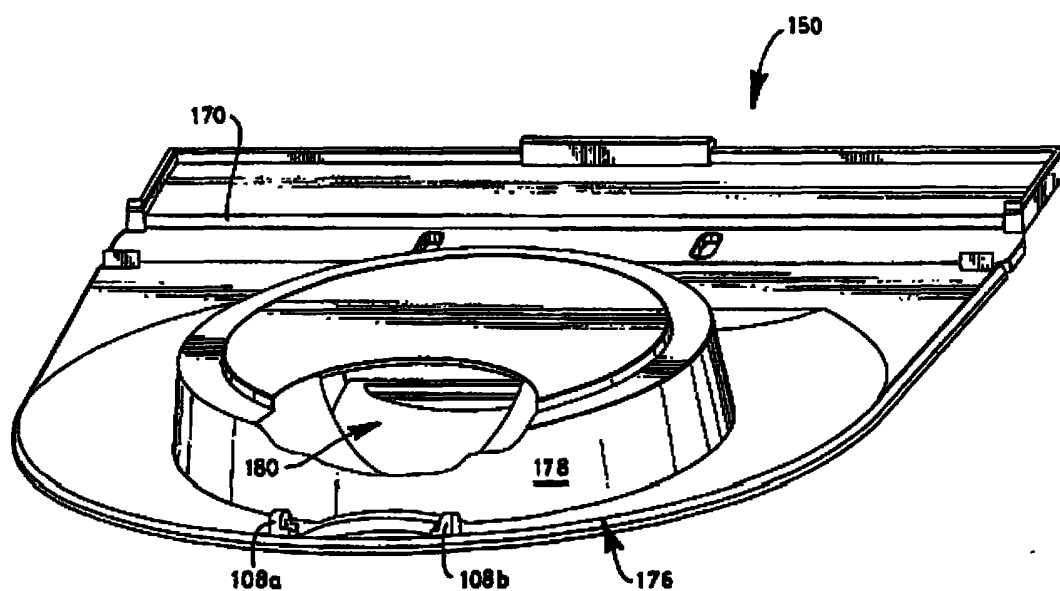


FIG. 11

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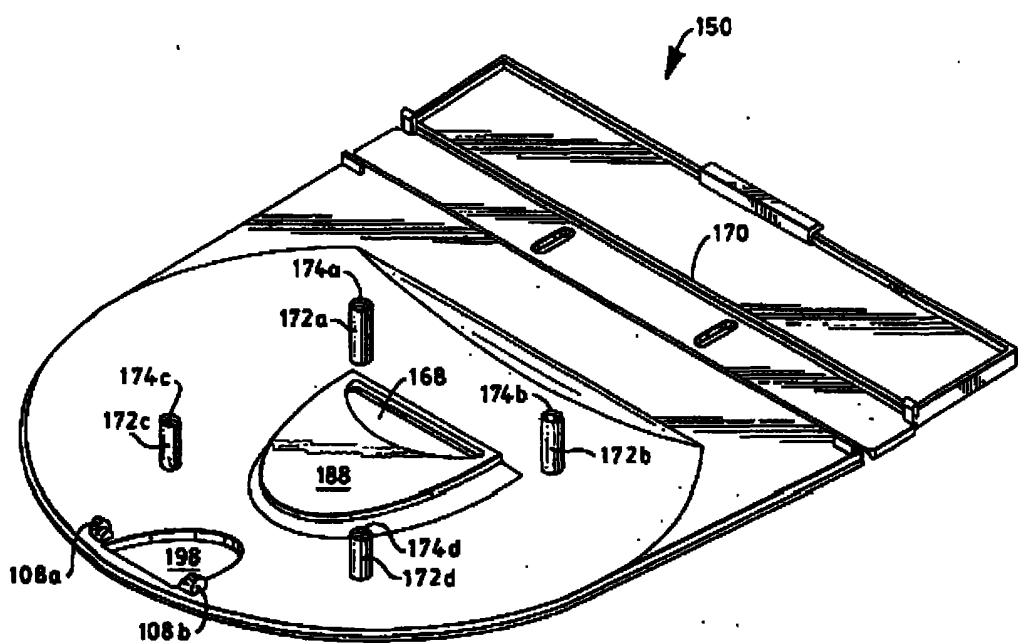


FIG. 12

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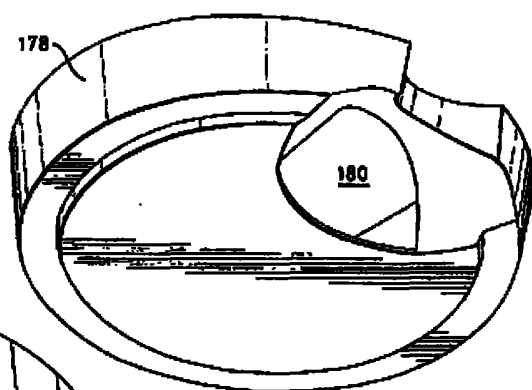


FIG. 14

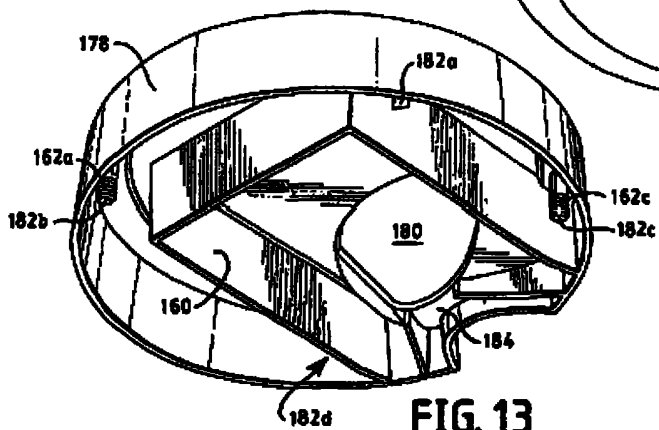


FIG. 13

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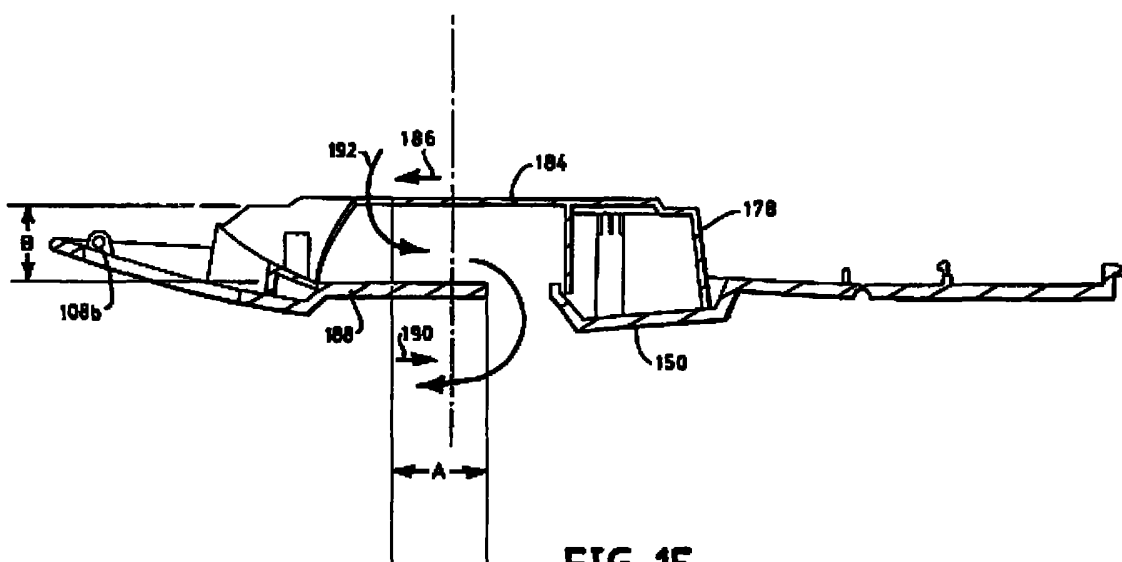


FIG. 15

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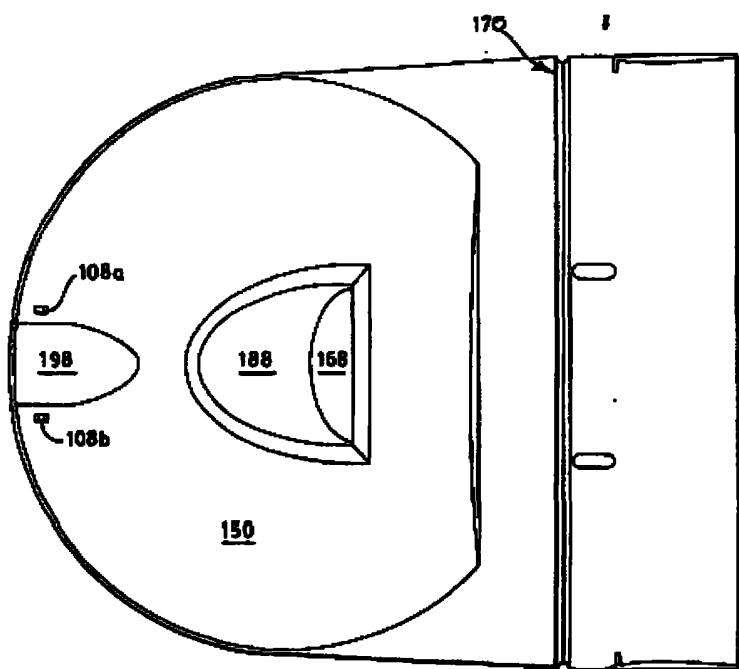


FIG. 16

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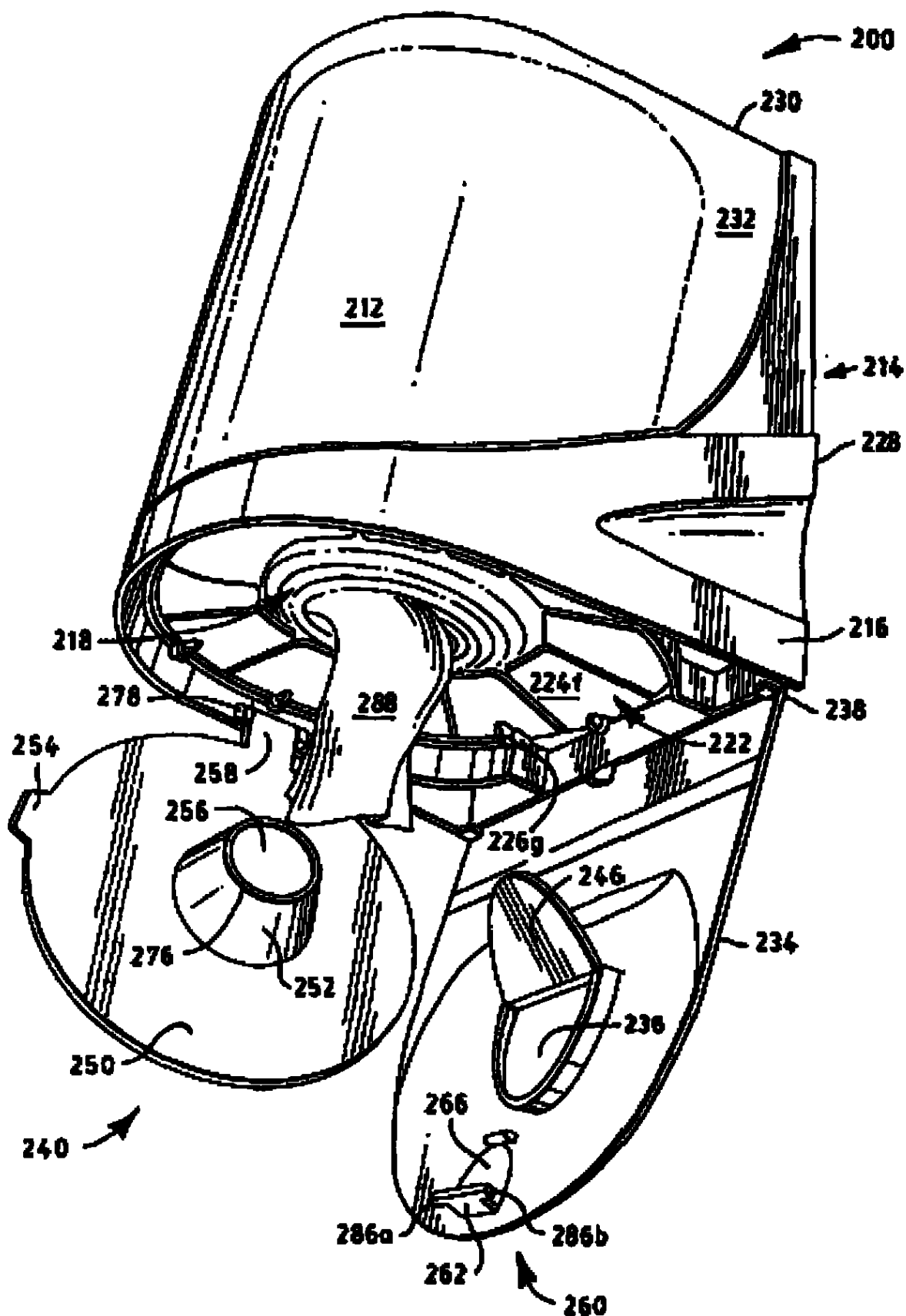


FIG. 17

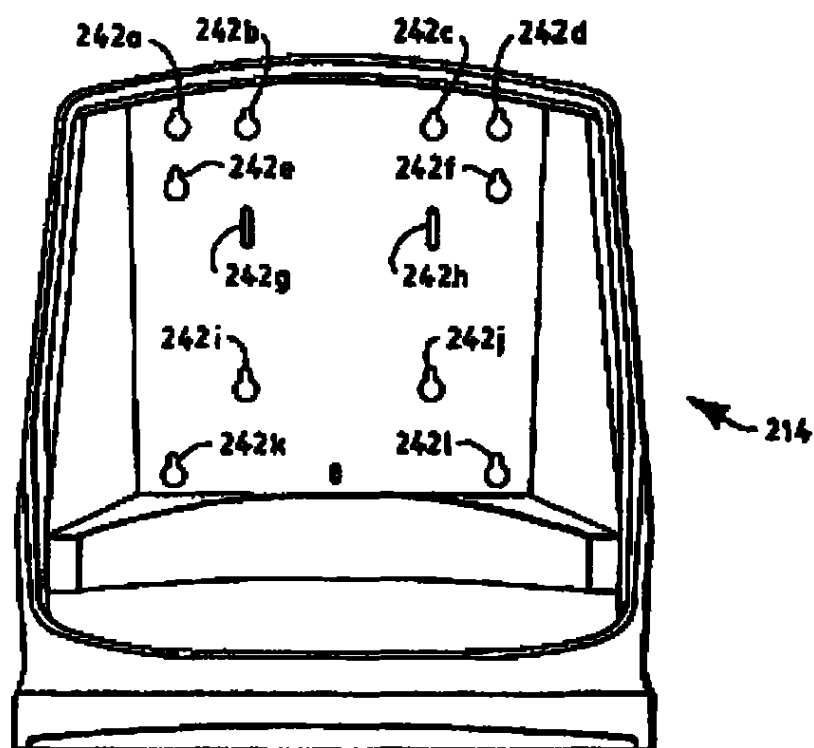


FIG. 18

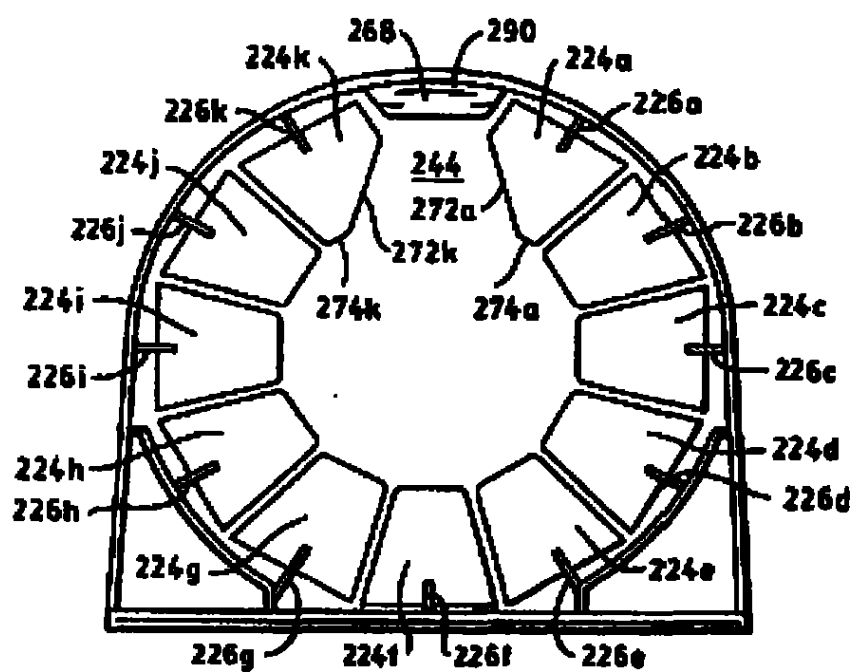


FIG. 19

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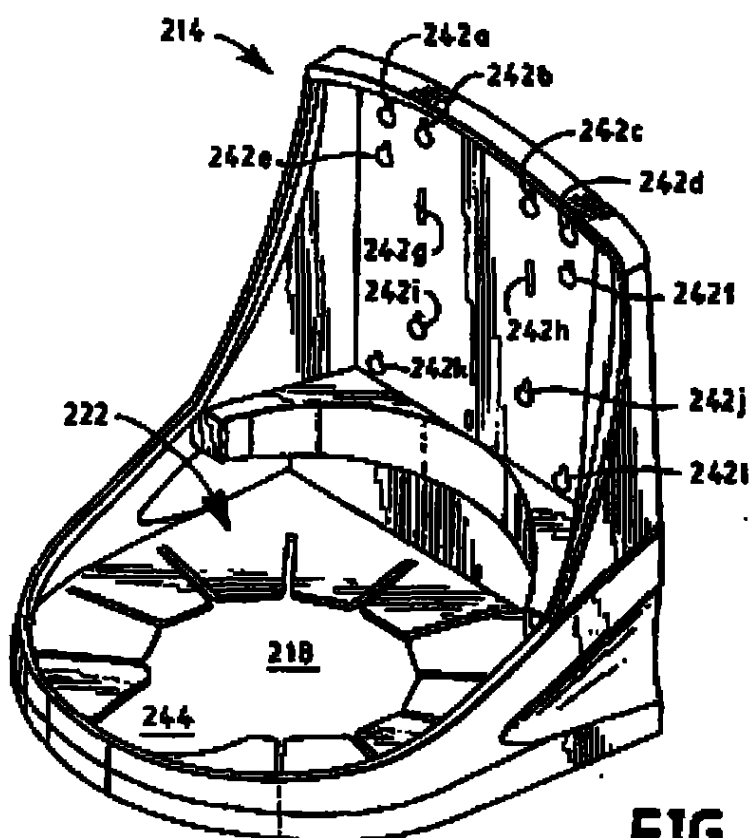


FIG. 20

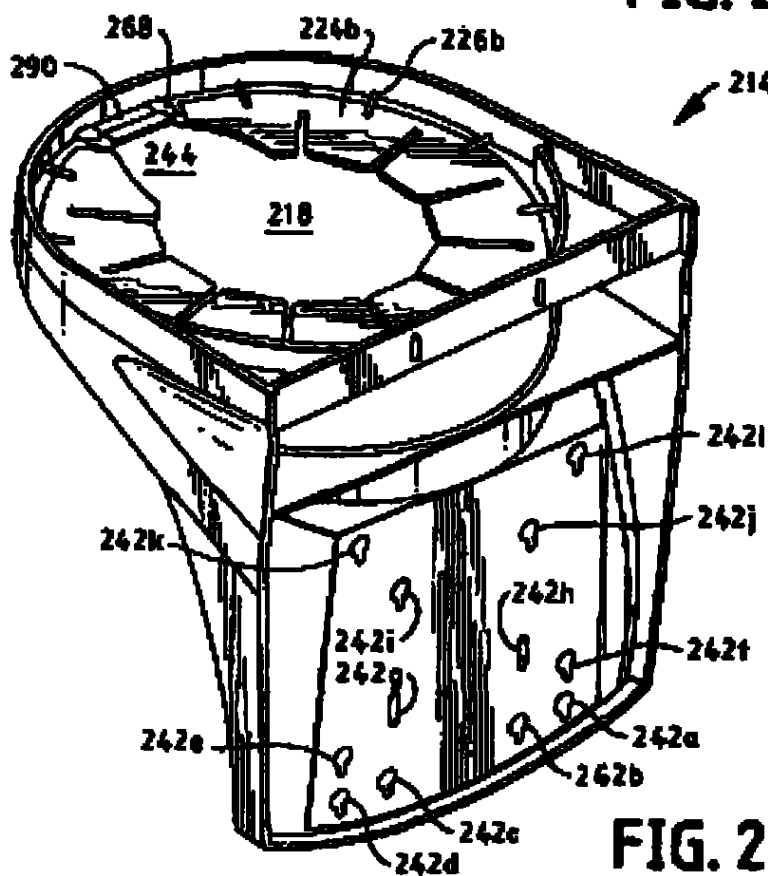


FIG. 21

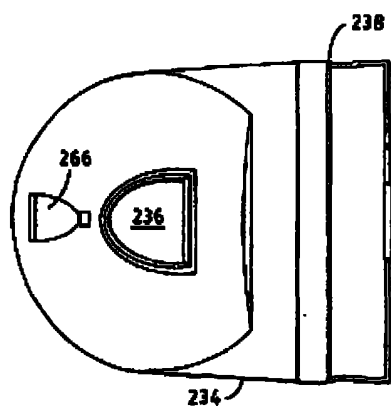


FIG. 23

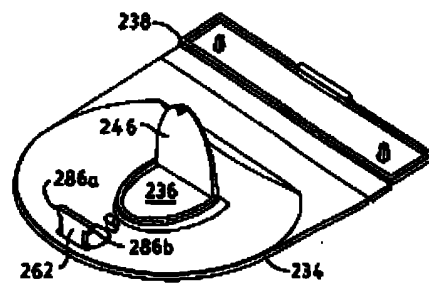


FIG. 24

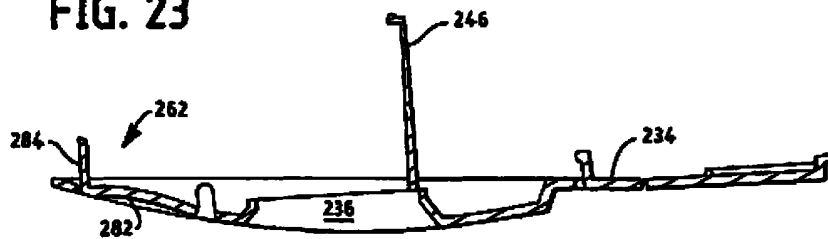


FIG. 22

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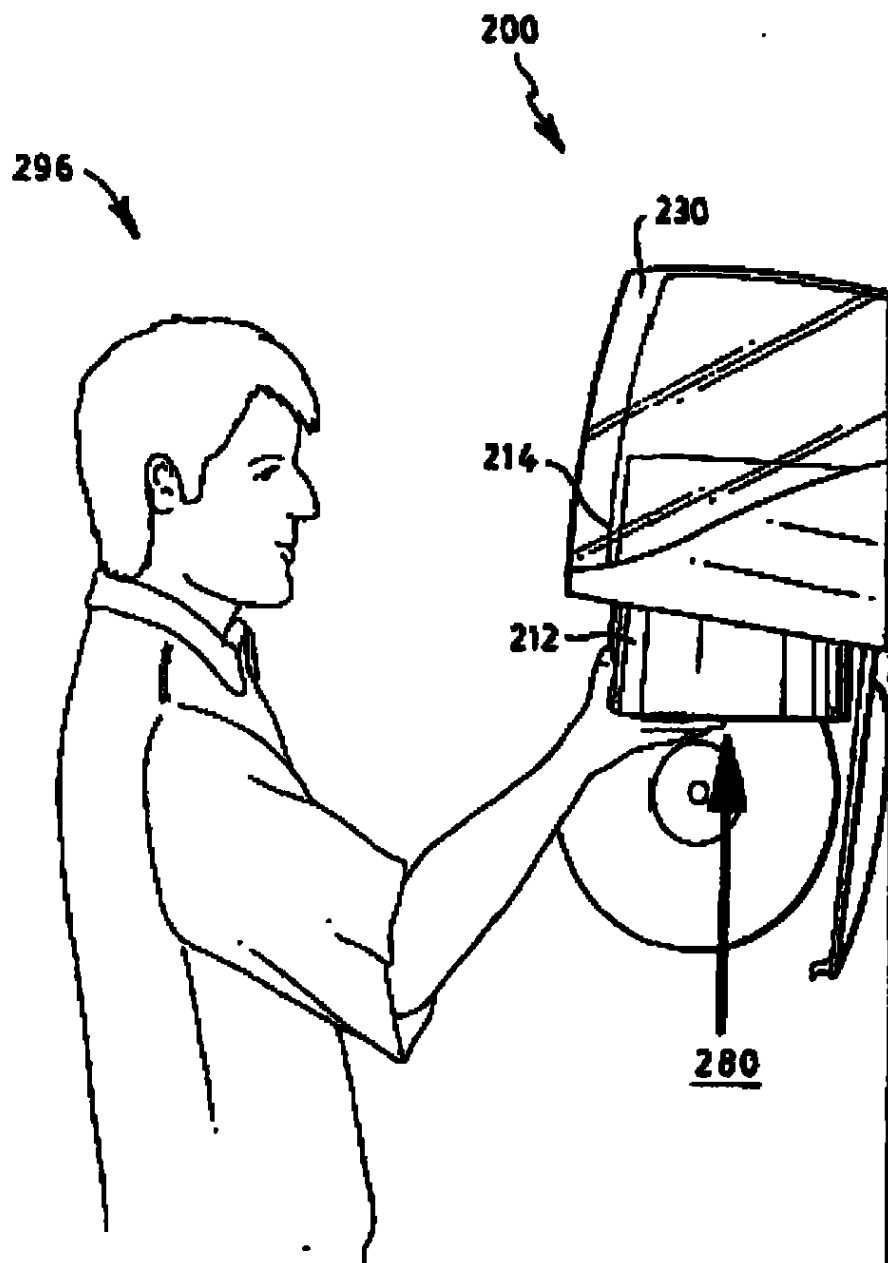


FIG. 25

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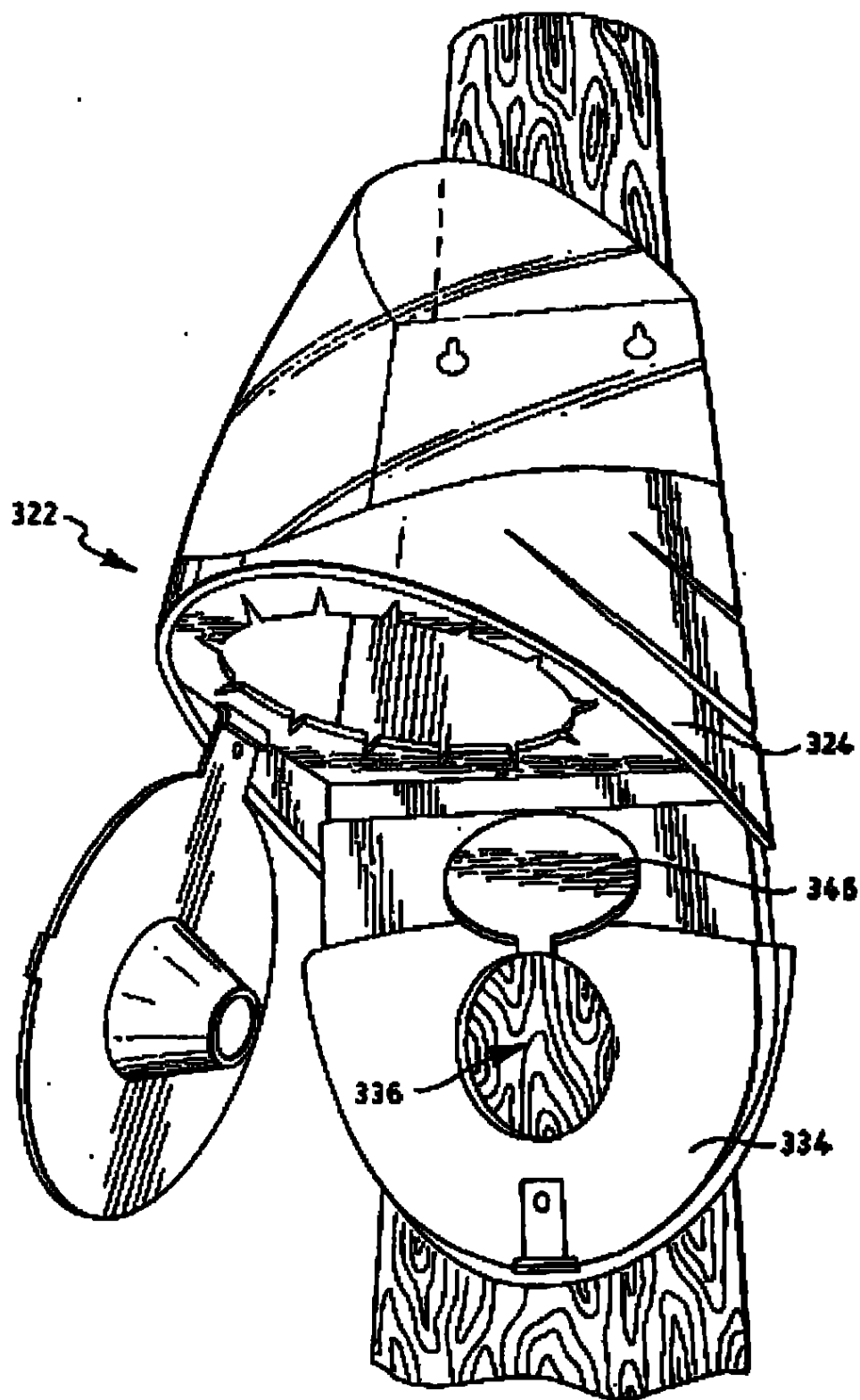


FIG. 26

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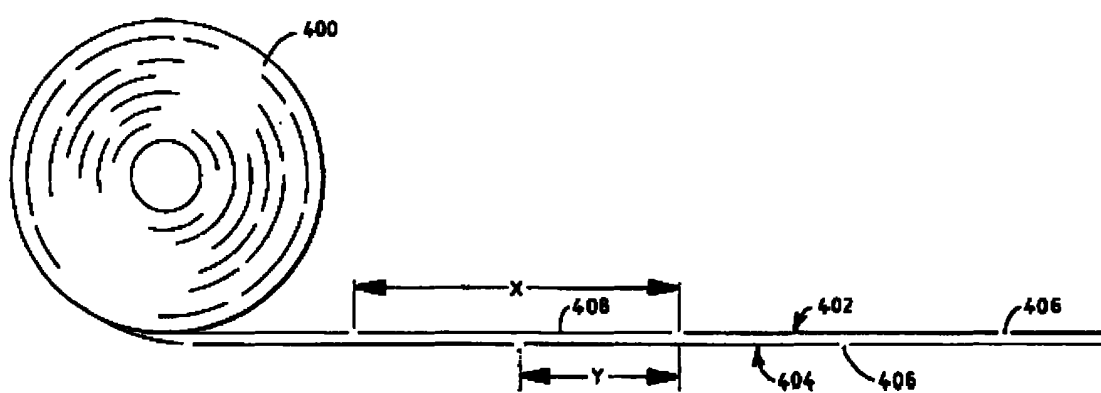


FIG. 27

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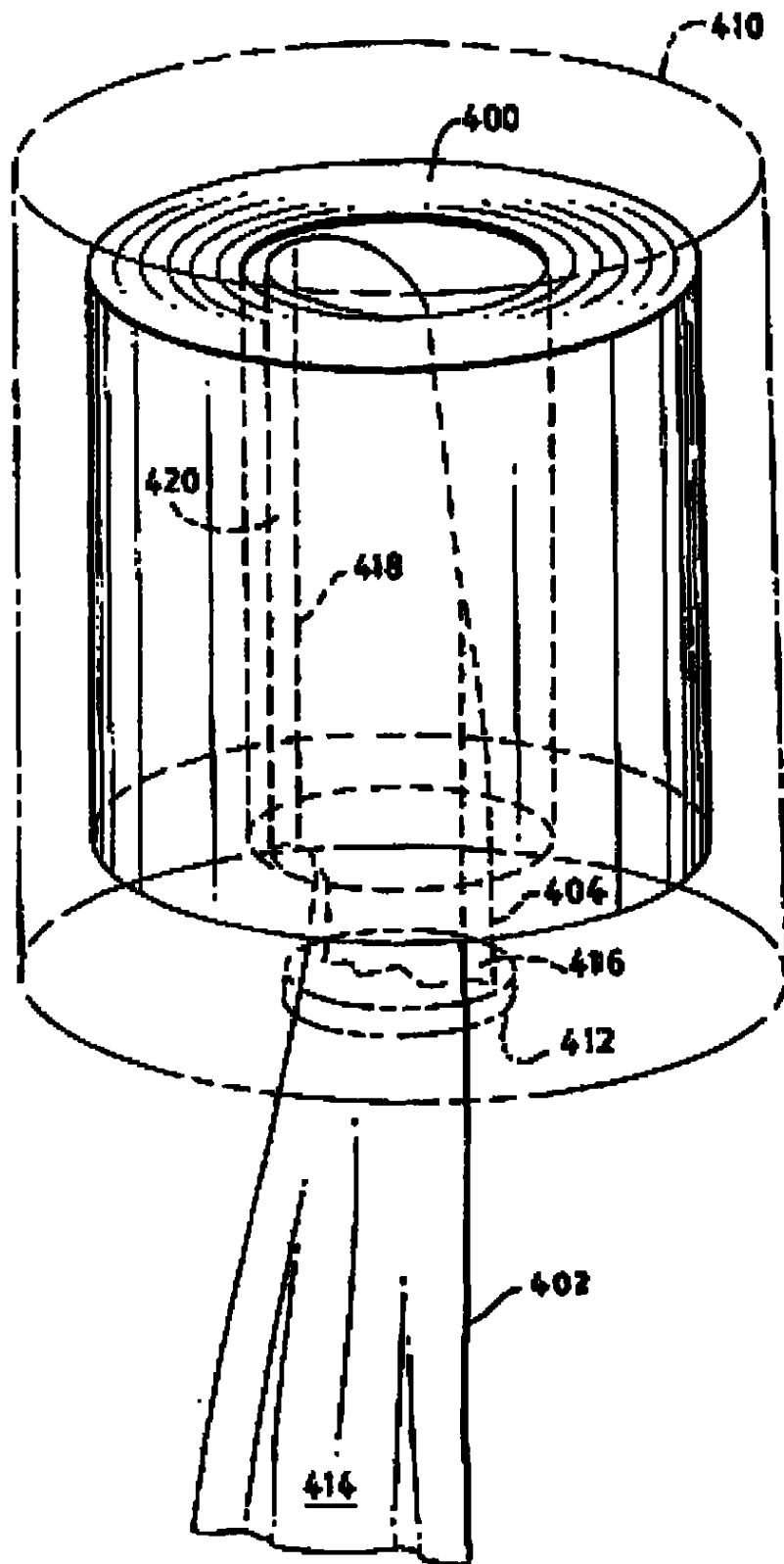


FIG. 28



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Office européen des brevets



(11) EP 0 836 825 A1

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(54) Centre pull sheet dispensing apparatus

(57) A center pull towel dispenser includes two housing members (10,12) which pivot about a vertical pivot axis. A support plate (16) supports the coreless roll product on end with the load end of the coreless roll product passing through a bottom wall disposed under the support plate. Various structural elements of the ap-

paratus cooperate to provide ease of threading of a roll product load end into a dispensing member (40) including a downwardly converging, generally cone-shaped wall (42) and to resist inadvertent pinching of the sheet product to be dispensed when the housing members form a closed interior.

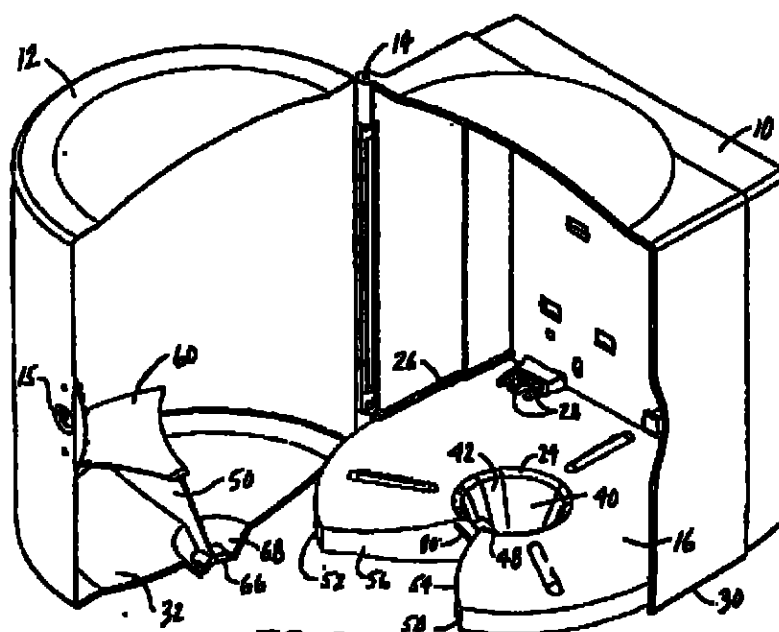


FIG. 2

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Description

TECHNICAL FIELD

This invention relates to the dispensing of sheet material, and more particularly, to apparatus for dispensing individual sheets, such as paper towels, from the center of a coreless roll comprised of a plurality of the sheets.

BACKGROUND OF THE INVENTION

A number of dispensers exist in the prior art for dispensing paper toweling and the like. Some of these dispensers are of the "center pull" type wherein a web of toweling or other sheet material is pulled from the center of a coreless roll through a nozzle or other sheet restricting element forming a restricted passageway. Assuming that the individual sheets of toweling or other material are connected by perforated lines, as is common, the nozzle or other restricting element will resist pulling of the sheet material by the user, thus breaking an individual sheet from the remaining web along the perforated line interconnecting same.

It is quite common to utilize center pull nozzles which have a cone-like or funnel-shaped wall configuration. In such arrangements, the nozzle has a lower lead end and entrance hole which is relatively large in comparison with the exit hole thereof. The entrance opening and the exit opening are dimensioned such that a first paper towel will separate from a following paper towel along the perforation boundary therebetween when a leading portion or end of the following paper towel exits from the exit opening.

Some problems have been encountered with center pull dispensers of the general type just described. For example, such dispensers incorporating funnels or nozzles with continuous peripheral walls present difficulties with regard to the initial threading of the toweling or other sheet material lead end and due to the generally constricted nature of the passageway through which the lead end must progress and exit therefrom to a position where the lead end may be manually grasped by a consumer. Furthermore, attendants servicing the dispenser are presented with the additional problem of covers or housing members which must be moved up or down to allow access to the interior of the dispenser. This is not only awkward but can result in injury occasioned by the cover falling under the influence of gravity and striking the attendant. Then too, inadvertent pinching of the toweling or other sheet material can occur in prior art devices when the housing member or covers are closed. This can result in sheet material tearing or other problems insofar as proper operation of the dispenser is concerned.

DISCLOSURE OF INVENTION

This invention relates to a center pull dispenser for

paper towels and other sheet material which is characterized by its simplicity and relatively low cost. Furthermore, the apparatus incorporates structure which facilitates feeding of the lead end of a roll product to be dispensed and also incorporates a cover structure which is mounted so that it is not a hazard to an individual servicing the dispenser apparatus. Cooperation of structural elements of the apparatus is such that inadvertent pinching or snagging of the product to be dispensed is considerably lessened as compared to prior art arrangements.

The apparatus disclosed and claimed herein is for dispensing individual sheets from the center of a coreless roll product comprised of a plurality of said sheets forming a wound web having a lead end projecting outwardly from the center.

The apparatus includes a first housing member and a second housing member. The second housing member is pivotally mounted on the first housing member about a substantially vertical pivot axis. The second housing member is substantially horizontally moveable between a closed position wherein the first and second housing members define a substantially closed housing interior and an open position.

A roll product support plate is attached to the first housing member for supporting a coreless roll product on and defines a support plate opening.

A dispensing member projects downwardly from the roll product support plate and includes a downwardly converging, generally cone-shaped wall defining a passageway communicating with the support plate opening and leading from the support plate opening to a restricted outlet opening. The downwardly converging, generally cone-shaped wall and the support plate define an elongated slot extending between the support plate opening and the restricted outlet opening. The support plate opening and the passageway are for accommodating the lead end and projecting downwardly from the center of a coreless roll product supported on and by the support plate. The slot is for the purpose of facilitating insertion of the lead end into the passageway.

The apparatus additionally includes an elongated rib member connected to the second housing member. The elongated rib member is positioned in the slot and located between the support plate opening and the restricted outlet opening when the second housing member is in the closed position and the elongated rib member is withdrawn from the slot when the second housing member is in the open position.

The support plate and the dispensing member may be integrally formed. The apparatus according to the invention includes an embodiment wherein the roll product support plate may include at least one curved support plate surface defining a gap and curving in a substantially horizontal direction and wherein the plate segment may include at least one curved plate segment surface curving in a substantially horizontal direction, the curves of the curved support plate surface and the

curved plate segment surface being substantially the same and the curved support plate surface and the curved plate segment surface being in close proximity when the second housing member is in the closed position.

The apparatus according to the invention also includes an embodiment wherein two opposed projections may project from the roll product support plate into the gap adjacent to the elongated slot.

The apparatus according to the invention may additionally comprise means limiting downward movement of the dispensing member relative to the bottom wall; for example, an abutment member on the dispensing member engageable with the bottom wall.

The apparatus according to the invention further includes an embodiment wherein the bottom wall opening may be positioned along a line of juncture formed by the bottom wall portions when the second housing member is in the closed position, each of the bottom wall portions including a downwardly extending bottom wall member, the downwardly extending bottom wall members being spaced apart immediately adjacent to the bottom wall opening when the second housing member is in the closed position.

In accordance with another aspect of this invention, there is provided a method of loading a coreless roll product in a dispenser according to the invention, which method comprises:

opening the dispenser;
inserting the lead end projecting outwardly from the centre of the coreless roll product through the slot;
and
closing the dispenser.

The method of the invention may utilize any embodiment of the dispensing apparatus herein described. It may comprise dispensing at least one individual sheet from the loaded dispenser. It may also comprise removing a substantially depleted coreless roll product from the dispenser prior to inserting the lead end projecting outwardly from the centre of the coreless roll product through the slot.

Other features, advantages, and objects of the present invention will become apparent with reference to the following description and accompanying drawings.

BRIEF DESCRIPTION OF DRAWINGS

Fig. 1 is a perspective view of dispenser apparatus constructed in accordance with the teachings of the present invention with the housing members thereof in closed condition and a paper towel lead end projecting from the bottom;

Fig. 2 is a perspective view of the apparatus in open condition and disclosing an empty interior;

Fig. 3 is a cross-sectional view taken along the line 3-3 in Fig. 1;

Fig. 4 is an enlarged bottom view of a portion of the apparatus designated by line 4-4 in Fig. 3; and
Fig. 5 is a cross-sectional view taken along line 5-5 in Fig. 3.

BEST MODE FOR CARRYING OUT THE INVENTION

Referring now to the drawings, a dispenser apparatus constructed in accordance with the teachings of the present invention includes a first housing member 10 and a second housing member 12. Second housing member 12 is pivotally mounted on the first housing member 10 by hinge 14 for movement about a substantially vertical axis, said axis being located at adjoining terminal edges of the housing members.

The second housing member is horizontally movable about hinge 14 between a closed position shown in Fig. 1, for example, wherein the first and second housing members define a substantially closed housing interior, and an open position, the latter being illustrated in Fig. 2, for example. First housing member 10 is for mounting on a wall or other suitable support (not shown). A suitable latch structure 15 is employed to releasably maintain the housing members closed.

Releasably attached to the first housing member is a roll product support plate 16 for supporting a coreless roll product on end. The roll product is typically a coreless paper towel comprised of a plurality of individual towels interconnected by lines of perforation. Since such towel constructions are well known, the roll towel is not shown in its entirety.

When the towel is located in the apparatus for dispensing, a lead end 22 thereof (Fig. 1) projects outwardly and downwardly from the center thereof. Support plate 16 defines a support plate opening 24 located under the center of the towel. The support plate 16 is positioned between and by support rails 26 projecting inwardly from the first housing member. Latch members 28 are utilized to releasably attach the roll product support plate to the rear wall of the first housing member. The roll product support plate is positioned above a bottom wall of the apparatus, the bottom wall being formed by bottom wall portions 30, 32 of the first and second housing members, respectively.

A dispensing member 40 is integral with and projects downwardly from the roll product support plate. Dispensing member 40 includes a downwardly converging, generally cone-shaped wall 42 defining a passageway 44 communicating with support plate opening 24 and leading from the support plate opening to a restricted outlet opening 46.

The downwardly converging, generally cone-shaped wall 42 and the support plate 16 define an elongated slot 48 extending all the way between the support plate opening and the restricted outlet opening. The support plate opening and the passageway are for accommodating the towel lead end 22 projecting outwardly from the center of the coreless towel product support-

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ed on end by the support plate. As will be seen below, the slot 48 is for facilitating insertion of the lead end into the passageway 44.

An elongated, relatively narrow, vertically oriented, elongated rib member 50 is connected to the second housing member. The rib member is positioned in the slot 48 and located between the support plate opening and the restricted outlet opening of dispensing member 40 when the second housing member is in closed position. See Figs. 3 and 5. The rib member is withdrawn from the slot when the second housing member is in the open position. See Fig. 2.

It should be noted that the rib member is narrower than the slot so that the rib member is spaced from the dispensing member when positioned in the slot and spaces are defined by the opposed sides of the rib members and the dispensing member. This arrangement lessens the likelihood of toweling being pinched between the rib and dispensing member when the second housing member is moved to its closed position. Such pinching could, of course, prevent proper operation of the apparatus during dispensing.

The roll product support plate 16 has an outwardly facing support plate edge 52 spaced from the support plate opening 24. The support plate forms a gap 54 extending from support plate opening 24 to edge 52. The gap is defined by spaced curved surfaces 56, 58 which diverge away from one another in a substantially horizontal direction.

Located within the confines of second housing member 12 and connected thereto is a plate segment 60, said plate segment being disposed on top of rib member 50 and oriented in a horizontal direction. The shape and size of the plate segment 60 correspond to the shape and size of gap 54 formed in the support plate. The side edges or edge surfaces of the plate segment curve in a horizontal plane. This curved configuration permits the second housing member to be moved to closed position (as well as to be moved to open position) with the support plate curved surface 56 in close proximity with one of the curved plate segment surfaces. This adds to the stability of the structure during such movement and acts as a guide to ensure correct positioning of the rib member in the elongated slot. When the second housing member 12 is completely closed, both curved edges or edge surfaces of the plate segment are in close proximity with the curved surfaces 56, 58 of the support plate.

The bottom wall comprised of bottom wall portions 30, 32 defines a bottom wall opening 68 positioned along the line of juncture formed by the bottom wall portions when the second housing member is in closed position. See Fig. 4. Each of the bottom wall portions includes a downwardly extending bottom wall member, such members being identified by reference numerals 66 and 70, combining to form structure in the general shape of a truncated cone which surrounds dispensing member 40 at the restricted outlet opening thereof. The

rib member 50 extends downwardly into bottom wall member 66 so that it enters the lower end of elongated slot 48. Such an arrangement provides additional structural stability to the apparatus. An abutment member 72 is formed on dispensing member 40 and is engageable with the apparatus bottom wall to limit downward movement of the dispensing member relative to the bottom wall. The bottom wall members 66, 70 are spaced apart immediately adjacent to the bottom wall opening 68 when the second housing member is in its closed position. Such an arrangement lessens the likelihood of "pinching" of the towel lead end when the second housing member is closed.

Threading of the lead end of a towel positioned in the apparatus is readily accomplished when the second housing member 12 is in open position, the lead end simply being manually placed in the slot 48 so that it exits restricted outlet opening 46. Rib-like projections 80 projecting from the curved surfaces 56, 58 perform the function of resisting outward movement of the lead end back into the slot from passageway 44.

Claims

1. A dispenser for a quantity of tearable web, wound as a coreless roll product and having a lead end projecting from the centre of the roll, the dispenser comprising in combination:

a first housing member;
a second housing member, one of the housing members being statically mountable while the other is mounted on or proximate thereto, the housing members being relatively movable generally horizontally between a closed position wherein the housing members define a substantially closed housing interior and an open position;
a roll product support plate, attachable to one of the housing members for supporting, in the housing interior, a coreless roll product on end, defining a support plate opening;
a dispensing member, mounted below and in register with the support plate opening, defining a roll product passageway communicating between the support plate opening and a restricted outlet opening, the support plate and the dispensing member defining, in register, an elongate slot, communicating with the support plate opening and the restricted outlet opening for facilitating insertion of the lead end of the supported roll product into the passageway; and
an elongate member, attachable to the housing member not bearing the roll product support plate, located in the elongate slot when the housing members are in the closed position and withdrawn from the slot when the housing

ed on end by the support plate. As will be seen below, the slot 48 is for facilitating insertion of the lead end into the passageway 44.

An elongated, relatively narrow, vertically oriented, elongated rib member 50 is connected to the second housing member. The rib member is positioned in the slot 48 and located between the support plate opening and the restricted outlet opening of dispensing member 40 when the second housing member is in closed position. See Figs. 3 and 5. The rib member is withdrawn from the slot when the second housing member is in the open position. See Fig. 2.

It should be noted that the rib member is narrower than the slot so that the rib member is spaced from the dispensing member when positioned in the slot and spaces are defined by the opposed sides of the rib members and the dispensing member. This arrangement lessens the likelihood of toweling being pinched between the rib and dispensing member when the second housing member is moved to its closed position. Such pinching could, of course, prevent proper operation of the apparatus during dispensing.

The roll product support plate 18 has an outwardly facing support plate edge 52 spaced from the support plate opening 24. The support plate forms a gap 54 extending from support plate opening 24 to edge 52. The gap is defined by spaced curved surfaces 56, 58 which diverge away from one another in a substantially horizontal direction.

Located within the confines of second housing member 12 and connected thereto is a plate segment 60, said plate segment being disposed on top of rib member 50 and oriented in a horizontal direction. The shape and size of the plate segment 60 correspond to the shape and size of gap 54 formed in the support plate. The side edges or edge surfaces of the plate segment curve in a horizontal plane. This curved configuration permits the second housing member to be moved to closed position (as well as to be moved to open position) with the support plate curved surface 56 in close proximity with one of the curved plate segment surfaces. This adds to the stability of the structure during such movement and acts as a guide to ensure correct positioning of the rib member in the elongated slot. When the second housing member 12 is completely closed, both curved edges or edge surfaces of the plate segment are in close proximity with the curved surfaces 56, 58 of the support plate.

The bottom wall comprised of bottom wall portions 30, 32 defines a bottom wall opening 66 positioned along the line of juncture formed by the bottom wall portions when the second housing member is in closed position. See Fig. 4. Each of the bottom wall portions includes a downwardly extending bottom wall member, such members being identified by reference numerals 68 and 70, combining to form structure in the general shape of a truncated cone which surrounds dispensing member 40 at the restricted outlet opening thereof. The

rib member 50 extends downwardly into bottom wall member 68 so that it enters the lower end of elongated slot 48. Such an arrangement provides additional structural stability to the apparatus. An abutment member 72 is formed on dispensing member 40 and is engageable with the apparatus bottom wall to limit downward movement of the dispensing member relative to the bottom wall. The bottom wall members 68, 70 are spaced apart immediately adjacent to the bottom wall opening 66 when the second housing member is in its closed position. Such an arrangement lessens the likelihood of "pinching" of the towel lead end when the second housing member is closed.

Threading of the lead end of a towel positioned in the apparatus is readily accomplished when the second housing member 12 is in open position, the lead end simply being manually placed in the slot 48 so that it exits restricted outlet opening 46. Rib-like projections 80 projecting from the curved surfaces 56, 58 perform the function of resisting outward movement of the lead end back into the slot from passageway 44.

Claims

1. A dispenser for a quantity of tearable web, wound as a coreless roll product and having a lead end projecting from the centre of the roll, the dispenser comprising in combination:

a first housing member;
a second housing member, one of the housing members being statically mountable while the other is mounted on or proximate thereto, the housing members being relatively moveable generally horizontally between a closed position wherein the housing members define a substantially closed housing interior and an open position;
a roll product support plate, attachable to one of the housing members for supporting. In the housing interior, a coreless roll product on end, defining a support plate opening;
a dispensing member, mounted below and in register with the support plate opening, defining a roll product passageway communicating between the support plate opening and a restricted outlet opening, the support plate and the dispensing member defining, in register, an elongate slot, communicating with the support plate opening and the restricted outlet opening for facilitating insertion of the lead end of the supported roll product into the passageway; and
an elongate member, attachable to the housing member not bearing the roll product support plate, located in the elongate slot when the housing members are in the closed position and withdrawn from the slot when the housing

members are in the open position.

2. A dispenser according to claim 1 wherein the roll product support plate has a support plate edge spaced from the support plate opening, and the dispenser additionally comprises a plate segment attached to the housing member not bearing the roll product support plate above the elongated rib member, the roll product support plate forming a gap extending from the support plate opening to the support plate edge, the plate segment substantially closing the gap when the housing members are in the closed position and the plate segment being withdrawn from the gap when the housing members are in the open position. 5 10 15
3. A dispenser according to claim 1 or 2 wherein said elongate member is dimensioned so that it is spaced from the dispensing member when positioned in the slot. 20
4. A dispenser according to any one of the preceding claims additionally comprising at least one projection projecting from the support plate into the space adjacent to the elongate slot for engagement by the lead end of a coreless roll product, supported on end by the support plate, located within the passageway thereby to resist outward movement of the lead end from the passageway through the gap. 25 30
5. A dispenser according to any one of the preceding claims wherein the first and second housing members each include a bottom wall portion, the bottom wall portions being adjacent when the housing members are in the closed position to form a bottom wall. 35
6. A dispenser according to claim 5 wherein the bottom wall is located under the roll product support plate and defines a bottom wall opening accommodating the dispensing member. 40
7. A dispenser according to any one of the preceding claims wherein the roll product support plate is releasably attached to the housing. 45
8. A dispenser according to any of the preceding claims wherein the first housing member is statically mountable and bears the roll product support plate while the second housing member bears the elongate member. 50
9. A method of loading a coreless roll product in a dispenser according to claim 1, which method comprises opening the dispenser; inserting the lead end and projecting outwardly from the center of said coreless roll product through the slot; and closing the dispenser. 55

10. A method according to claim 9 wherein the dispenser is defined in any one of claims 2 to 8.

11. A method according to claim 9 wherein the coreless roll product comprises a wound web individuable into a plurality of sheets.

140

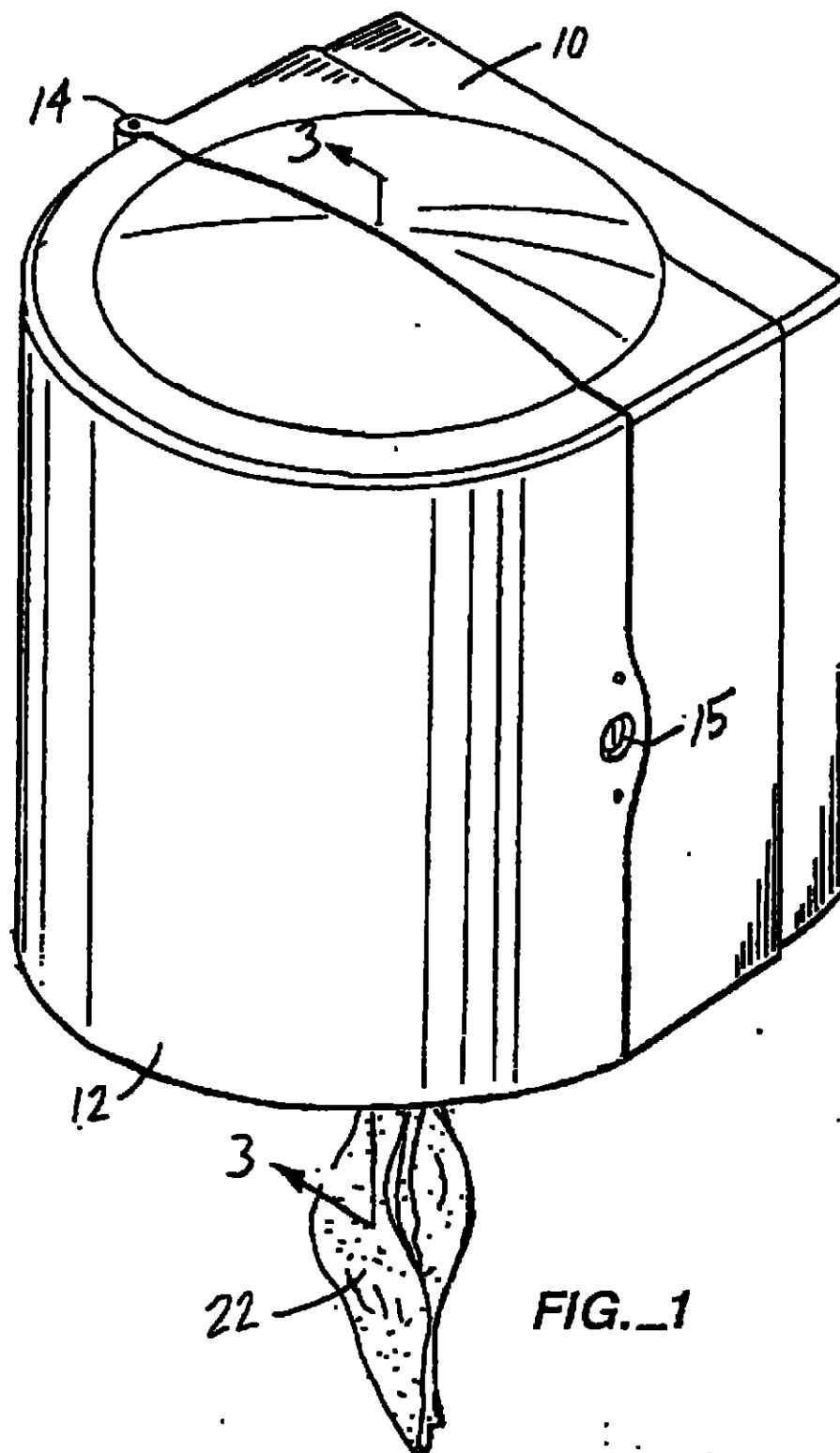


FIG. 1

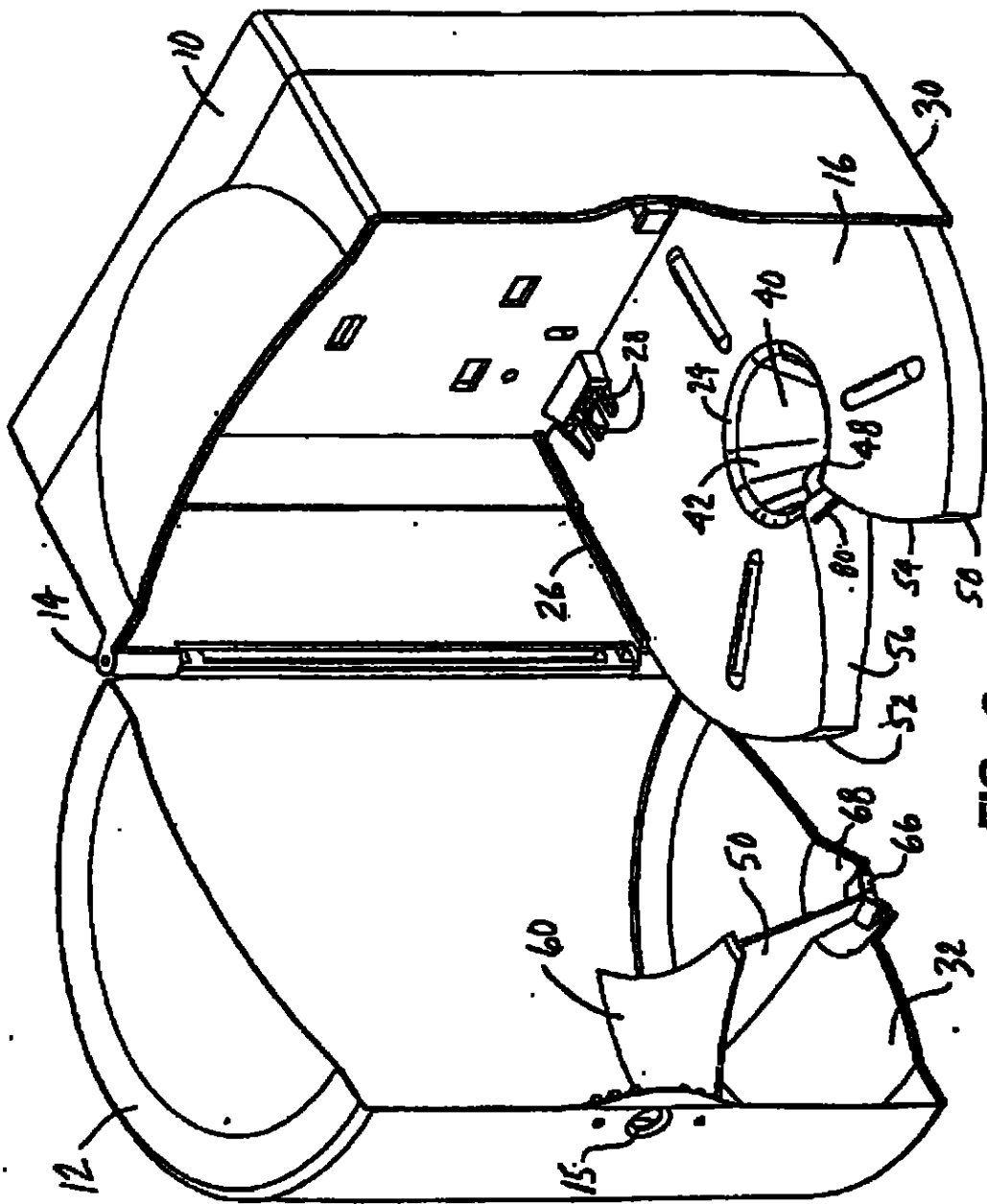
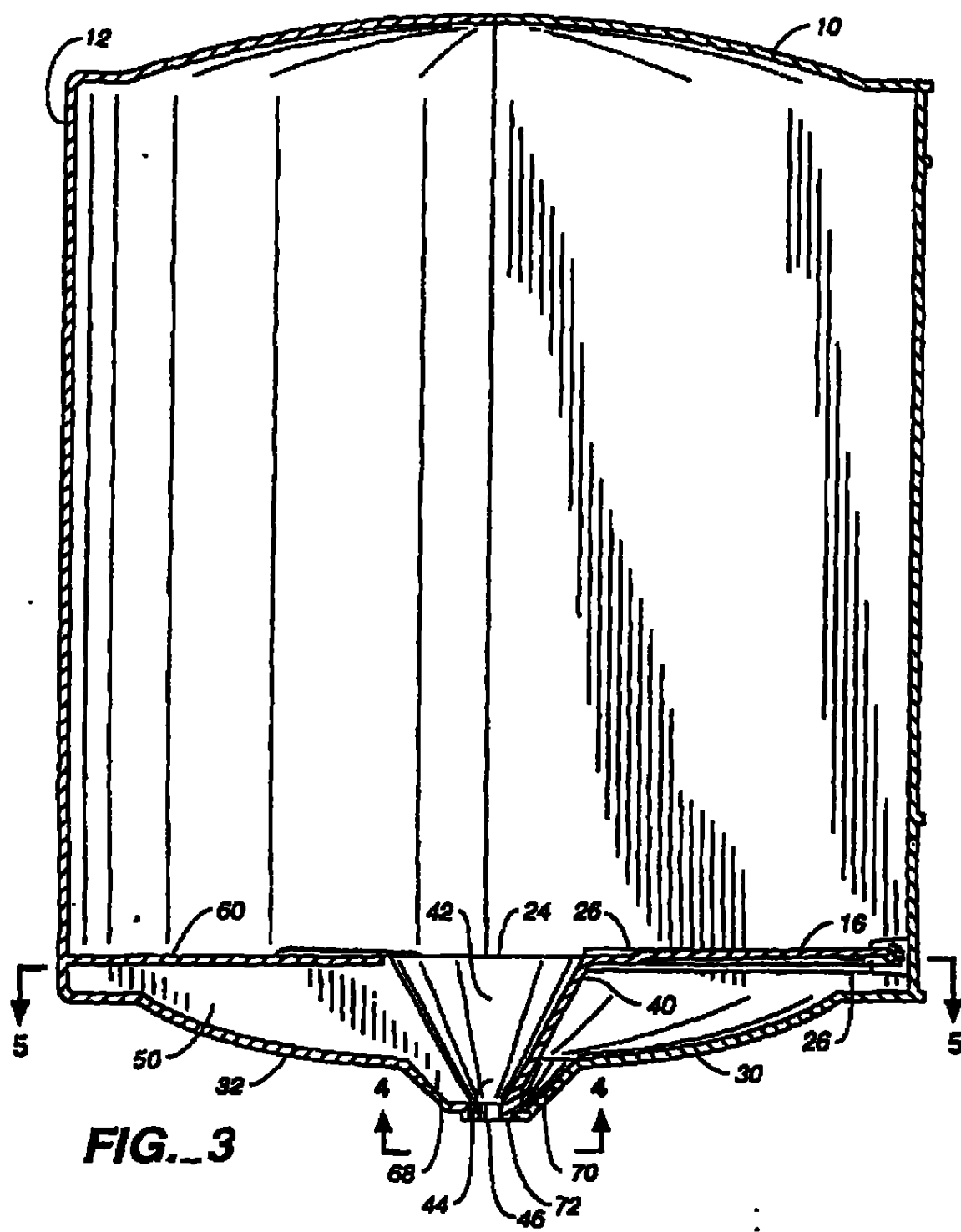


FIG. 2



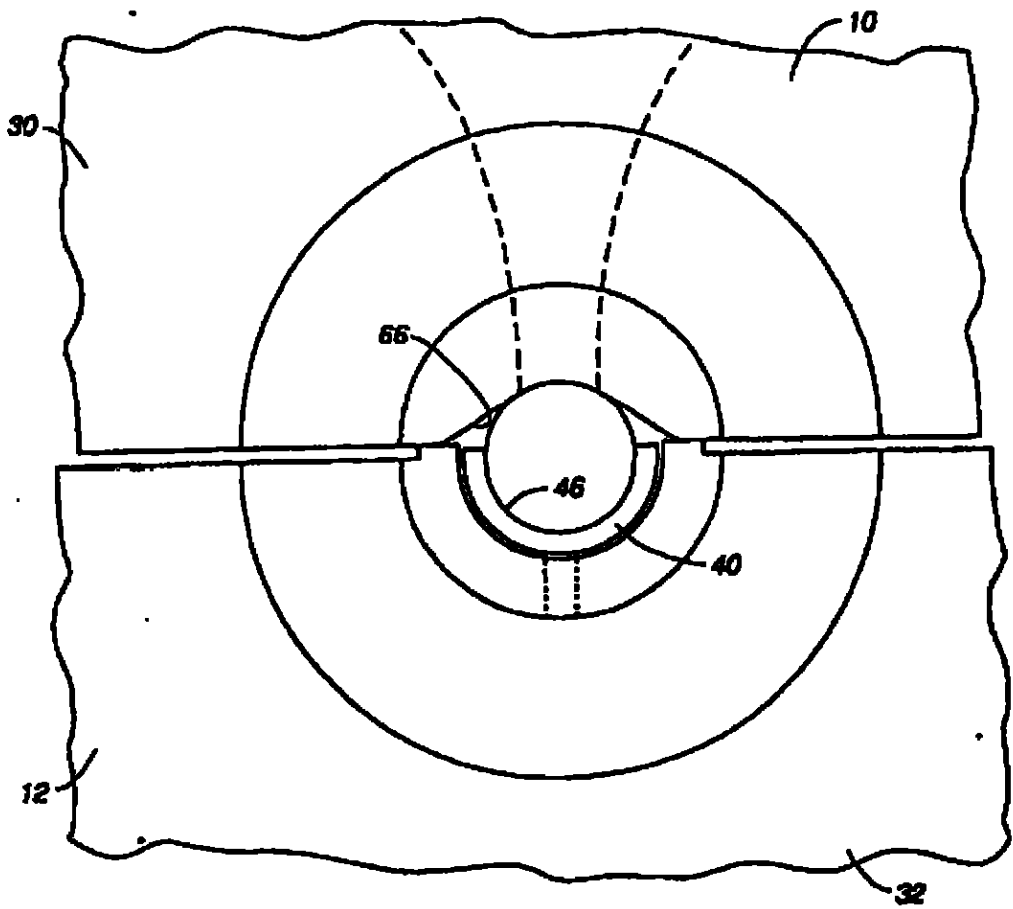
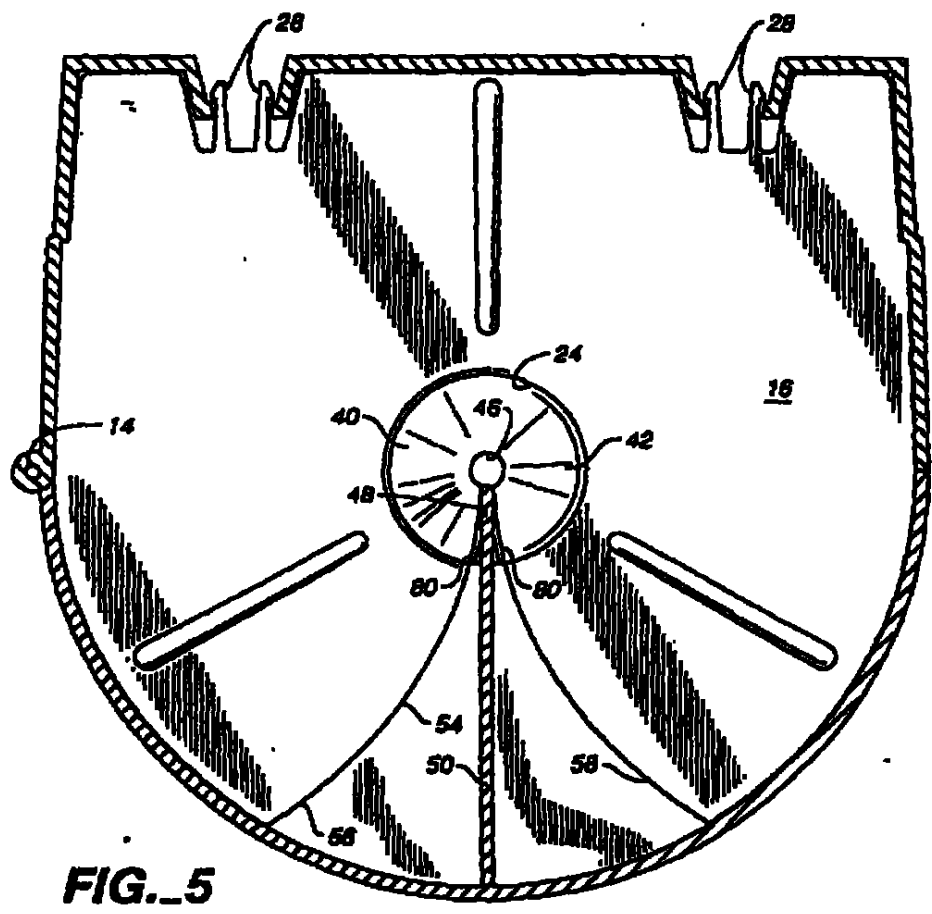


FIG. 4

85

144



69
145

Señores
DIVISIÓN DE SIGNOS DISTINTIVOS
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
Bogotá D.C.

MARIA ADELAIDA PEREZ JARAMILLO, mayor de edad, identificada como aparece al pie de mi firma, actuando en Representación Legal de la Sociedad **PRODUCTOS FAMILIA S.A.**, empresa organizada y existente de conformidad con la Leyes Colombianas, domiciliada en Medellín, Antioquia - Colombia, otorgo poder especial, amplio y suficiente a los doctores **MAURICIO JARAMILLO CAMPUZANO Y/O PAULA SAMPER SALAZAR**, abogados en ejercicio, mayores de edad, identificados como aparece al pie de sus firmas, quienes podrán actuar conjunta o separadamente, para presentar oposición a la solicitud de Patente de Invención Denominada: **"SURTIDOR PARA MATERIAL DE HOJA"** Expediente No. 04.61301 presentada por: **KIMBERLY - CLARK WORLD WIDE INC**, Publicada en la gaceta No. 544.

Los apoderados quedan facultados para transigir, recibir, desistir, sustituir, reasumir este poder, interponer recursos y, en general, para todo lo encaminado a la mejor defensa de los intereses de la sociedad en cuyo nombre hablo.


MARIA ADELAIDA PEREZ JARAMILLO
C.C. No. 43.582.297 de Envigado.

Acepta el Poder:


MAURICIO JARAMILLO CAMPUZANO
C.C. 80.421.942 de Usaquén
T.P 74.555 del C.S.J.

PAULA SAMPER SALAZAR
C.C. 51.854.274 de Bogotá
T.P 56.190 del C.S.J.

NOTARIA SEPTIMA DEL CIRCULO DE MEDELLIN

Este memorial dirigido a Superintendencia Ind. y Comercio

Guillermo Bobo fue presentado personalmente

ante el suscrito NOTARIO por Marta

Adelaida Perez Precumillo

Identificado(a) con la Cédula(s) y T.E. No.

CC 99.582-297

Medellin, 21 DIC., 2004

Escritura

Marta

REPÚBLICA DE COLOMBIA
MEDELLIN
DRA. MARY ORTIZ GARCIA
NOTARIA SEPTIMA
ENCARGADA



CERTIFICADO DE EXISTENCIA Y REPRESENTACIÓN

El SECRETARIO DE LA CAMARA DE COMERCIO DE MEDELLÍN PARA ANTIOQUIA, con fundamento en las matrículas e inscripciones del Registro Mercantil,

CERTIFICA

DENOMINACION SOCIAL:

PRODUCTOS FAMILIA S.A, pero la sociedad podrá identificarse, igualmente, en el siguiente orden:

FAMILIA S.A.

SANCELA S.A.

PRFA S.A.

PRODUCTOS FAMILIA SANCELA S.A.

FAMILIA SANCELA DE COLOMBIA S.A.

DOMICILIO

MEDELLIN

MATRICULA

21-002643-4

NIT

890900161-9

CERTIFICA

CONSTITUCION: Que por escritura pública Nro.7973, otorgada en la Notaría 4a. de Medellín en diciembre 31 de 1958, inscrito su extracto en esta Cámara de Comercio en 16 de enero de 1959, en el libro 2o., f li 788, bajo No.1, se constituyó una sociedad anónima denominada:

"SCOTT DE COLOMBIA S.A."

CERTIFICA

REFORMAS: Que hasta la fecha la sociedad ha sido reformada por las siguientes escrituras:

No.2.535 del 16 de abril de 1959, de la Notaría 4a. de Medellín.

N .1.460 del 11 de marzo de 1964, de la Notaría 4a. de Medellín

No.2.116 del 17 de septiembre de 1970, de la Notaría 7a. de Medellín, registrada en esta Cámara de Comercio el 28 de septiembre de 1970, en el libro 2o., folio 674, bajo el No.119, por medio de la cual cambió su denominación por:

PEPELES SCOTT DE COLOMBIA S.A.

N .7.420 del 20 de diciembre de 1974, de la Notaría 3a. de Medellín, aclarada por escritura No.2.080 del 28 de mayo de 1975 de la Notaría 3a. de Medellín.

No.4.354 del 9 de diciembre de 1980 de la Notaría 3a. de Medellín.

No.2.205 del 19 de julio de 1985, de la Notaría 7a. de Medellín

No.423 del 20 de febrero de 1986 de la Notaría 7a. de Medellín, registrada en esta Cámara de Comercio el 26 de febrero de 1986, en el libro 9., f li 165, bajo el No.1316, por medio de la cual cambia su

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denominación social por la de:

PRODUCTOS FAMILIA S.A.

No.1.232 del 27 de mayo de 1986, de la Notaría 7a. de Medellín, registrada en esta Cámara de Comercio el 6 de junio de 1986, en el libro 9., folio 531, bajo el No.4243, por medio de la cual la sociedad se denomina:

PRODUCTOS FAMILIA S.A. pero podrá también hacer uso de la sigla y conocerse como: **FAMILIA S.A.**

No.2582 del 28 de octubre de 1986 de la Notaría 7a. de Medellín.

No.1554, de mayo 27 de 1987, de la Notaría 7a. de Medellín.

No.1.019, de mayo 9 de 1989, Notaría 7a. de Medellín.

No.2.494, de octubre 9 de 1989, de la Notaría 7a de Medellín

No.41, enero 18 de 1991, de la Notaría 20a. de Medellín.

No.421, de febrero 2 de 1994, de la Notaría 20a. de Medellín.

No.3.876, de agosto 4 de 1997, de la Notaría 4a. de Medellín, registrada en esta Cámara el 06 de agosto de 1997, en el libro 9o., folio 907, bajo el No.6347, mediante la cual se solemniza la escisión de la sociedad la cual se fracciona el patrimonio, constituyendo una nueva sociedad la cual girará bajo la denominación social de:

VALORES INDUSTRIALES S.A.

No.5514 del 28 de octubre de 1998, de la Notaría 4a. de Medellín.

No.2.812, de julio 23 de 1999, de la Notaría 4a. de Medellín, registrada en esta Cámara el 28 de julio de 1999, en el libro 9o., folio 896, bajo el No.6270, mediante la cual se adiciona al nombre de sociedad una sigla, además de la que actualmente se usa, así:

"PRODUCTOS FAMILIA S.A.",
pero podrá también hacer uso de las siglas siguientes y conocerse como **FAMILIA S.A.** o también como **PRFA S.A.**

No.4473 de noviembre 30 de 2.000, de la Notaría 20a. de Medellín,

No.4826 del 21 de diciembre de 2000, de la Notaría 20a. de Medellín, registrada en esta Entidad el 26 de diciembre de 2000, en el libro 9., folio 1781, bajo el No.12463, mediante la cual se aprobó el compromiso de **FUSION**, por absorción, entre las sociedades **PRODUCTOS FAMILIA S.A (ABSORBENTE)**, y la sociedad **PRODUCTOS SANITARIOS SANCELA S.A (ABSORBIDA)**, la cual tiene el domicilio principal en el municipio de Ri negro, la cual se Disuelve sin liquidarse.

Aclarada por escritura No.342 del 10 de febrero de 2003, de la Notaría 7a. de Medellín.

No.195 del 29 de enero de 2001 de la Notaría 20a. de Medellín, registrada en esta Entidad el 31 de enero de 2001, en el libro 9o., folio 127, bajo el No.886, mediante la cual la sociedad cambió su denominación social y se denominará así:

PRODUCTOS FAMILIA S.A, pero la sociedad podrá identificarse, igualmente, en el siguiente rden: FAMILIA S.A, SANCELA S.A, PRFA S.A.
PRODUCTOS FAMILIA SANCELA S.A,
FAMILIA SANCELA DE COLOMBIA S.A.,

No.952 del 21 de mayo de 2002 de la Notaría 7a. de Medellín.

CERTIFICA

VIGENCIA: Que la sociedad no se halla disuelta y su duración es la siguiente: Hasta mayo 22 del año 2058.

CERTIFICA

OBJETO SOCIAL: La sociedad tiene por objeto:

a. Adquirir por concesión o por otro título cualquiera, el derecho a explotar bosques de la nación o de particulares.

b. Plantar, cultivar y explotar toda clase de maderas o cosechas con el fin de btener celulosa.

c. Manufacturar, procesar, comprar y vender pulpa, papel, celulosa de todos los tipos y materiales similares a los anteriores o derivados de ellos, y construir o adquirir, y poner en operación una o más plantas fábricas para manufacturar, procesar, etc., pulpa, papel y celulosa de todos l s tipos o materiales similares a estos o derivados de ellos.

ch. Establecer sucursales, agencias y, en general, dependencias para l s propósitos que quedan indicados y para los demás que se indican en este artículo.

d. Importar a Colombia o conseguir dentro de este país, toda clase de materias primas necesarias para la manufactura o procesamiento de pulpa, papel, celulosa de todos los tipos y de materiales similares a estos derivados de ellos y en general importar cualquier otro tipo de materia prima necesaria para la manufactura y procesamiento de los product s que c nstituyen el objeto social; vender, permutar y, en una palabra, negociar con tales materias primas.

e. Comprar y vender maquinaria, repuestos, herramientas y, en general, equipos para la manufactura o procesamiento o utilización de l s artícul s que se dejan mencionados.

f. Instalar o adquirir y poner en operación plantas de energía eléctrica con destino a la realización de los fines que tiene la s ciedad, de acuerdo el artículo.

g. Comercializar dentro del territorio nacional mercancías producidas por terceros.

h. Fabricar, investigar, desarrollar y comercializar product s cosmétic s, de belleza, implementos de ase personal, industrial y del hogar, product s desechables a base de pulpa de papel, poliestireno,

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plástico y demás materiales, y productos similares.

i. Podrá la sociedad participar como constituyente, o adquiriendo acciones o derechos de sociedades ya constituidas que se dediquen a la explotación, procesamiento y comercialización de productos naturales como la madera, la sal, el café, el oro y sus derivados.

Para el cumplimiento de las actividades que constituyen el objeto de la sociedad, según lo dicho anteriormente, podrá celebrar o ejecutar en su propio nombre, por cuenta de terceros, en participación con ellos, todos los actos, operaciones comerciales, industriales y financieras sobre los bienes muebles e inmuebles, que sean necesarios o convenientes al logro de los fines que persigue y que pueden favorecer o desarrollar sus actividades, o las de aquellas empresas o sociedades en las cuales tenga interés, siempre que de manera directa se relacionen con el objeto social, según se determina en el presente artículo, como por ejemplo las siguientes: Adquirir o enajenar bienes muebles o inmuebles, hipotecarlos o gravarlos, según el caso, celebrar, contratos de arrendamiento relativos a dichos bienes; adquirir y usar o enajenar nombres y emblemas, patentes y marcas; promover, formar, administrar, organizar y financiar sociedades o empresas que tengan objetos similares al suyo o que negocien en ramos que faciliten el cumplimiento de éste y participar en tales sociedades o empresas y en otras ya constituidas, aportando bienes y adquiriendo acciones o interés en ellas o absorberlas fusionarse con ellas; celebrar contratos de mutuo con garantía o sin ella; firmar toda clase de títulos valores; dar en garantía sus bienes muebles o inmuebles; abrir y manejar cuentas corrientes, girar, aceptar, endosar, avalar, protestar; negociar con toda clase de documentos de crédito, sean civiles o mercantiles; emitir bonos nominativos o al portador, con interés o sin interés, con garantía específica o sin ella; y en general celebrar y ejecutar todo género de contratos o actos civiles o comerciales, industriales o financieros, que estén directamente relacionados con el objeto social y los que tengan como finalidad ejercer los derechos o cumplir las obligaciones que legal o convencionalmente se deriven de la existencia y actividad de la sociedad.

En general celebrar y ejecutar todo género de contratos en actos civiles comerciales, industriales o financieros, y en general actos de disposición del patrimonio social, incluyendo donaciones de bienes en especie o dinero, que estén relacionados con el objeto social y los que tengan como finalidad ejercer los derechos o cumplir las obligaciones que legal o convencionalmente se deriven de la existencia y actividad de la sociedad.

CERTIFICA

CAPITAL AUTORIZADO: Que el Capital Autorizado de la sociedad es de \$800.000.000, dividido en 8.000.000.000 de acciones de \$0.10 centavos cada una.

CAPITAL SUSCRITO Y PAGADO: Que el capital suscrito y pagado de la sociedad es de \$111.066.788.80, dividido 1.110.667.888, de acciones de \$0.10 centavos cada una.

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CERTIFICA

REPRESENTACION LEGAL: La representación Legal está a cargo de un Gerente.

El Gerente de la compañía tendrá cuatro (4) Suplentes, que lo reemplazarán personal e individualmente en sus faltas temporales o accidentales, así como también en los actos en los cuales esté impedido.

CERTIFICA

NOMBRAMIENTOS:

CARGO	NOMBRE	IDENTIFICACION
GERENTE	LUIS CARLOS URIBE JARAMILLO	8.254.693

Nombrado por Acta No.354, de abril 23 de 1980, de la Junta Directiva, inscrita en esta Cámara el 22 de mayo de 1980, en el libro 9, folio 129, bajo el No.2586.

PRIMER SUPLENTE DEL GERENTE GENERAL	DARIO REY MORA DESIGNACION	70.563.269
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Por acta número 576 del 18 de junio de 2004, de la junta directiva registrado su extracto en esta Cámara el 1 de julio de 2004, en el libro 9, bajo el número 6582

SEGUNDO SUPLENTE DEL GERENTE GENERAL	JUAN FELIPE HOYOS BOTERO DESIGNACION	71.714.123
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Por acta número 576 del 18 de junio de 2004, de la junta directiva registrado su extracto en esta Cámara el 1 de julio de 2004, en el libro 9, bajo el número 6582

TERCER SUPLENTE DEL GERENTE GENERAL	MONICA PELAEZ PEREZ DESIGNACION	43.721.218
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Nombrado por acta número 576 del 18 de junio de 2004, de la junta directiva registrado su extracto en esta Cámara el 14 de julio de 2004, en el libro 9, bajo el número 6935

CUARTO SUPLENTE DEL GERENTE GENERAL	MARIA ADELAIDA PEREZ JARAMILLO DESIGNACION	43.582.297
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Nombrada por acta número 576 del 18 de junio de 2004, de la junta directiva registrado su extracto en esta Cámara el 14 de julio de 2004, en el libro 9, bajo el número 6935

CERTIFICA

FACULTADES DEL REPRESENTANTE LEGAL: S n funci nes y facultades del Gerente General de la Compañía, las siguientes:

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- a) Hacer uso. de la denominación social.
- b) Ejecutar los decretos de la Asamblea General de Accionistas y los acuerdos o resoluciones de la Junta Directiva.
- c) Ejercer las funciones indicadas en los estatutos, cuando le sean delegadas, total o parcialmente, por la Junta Directiva.
- ch) Designar y remover libremente los empleados de la Compañía que no dependan directamente de la Asamblea General de Accionistas y escoger, también libremente, el personal de trabajadores, determinar su número, fijar el género de labores, remuneraciones etc., y hacer los despidos del caso.
- d) Constituir los apoderados judiciales o extrajudiciales que juzgue necesarios para la adecuada representación de la sociedad delegándoles las facultades que estime convenientes de aquellas que él mismo goza.
- e) Ejecutar los actos y celebrar los contratos que tiendan al desarrollo del objeto social.

En ejercicio de esta facultad, el Gerente General podrá enajenar a cualquier título los bienes muebles o inmuebles y darlos en prenda en hipoteca; alterar la forma de los bienes raíces por su naturaleza o su destino; dar o recibir en mutuo cantidades de dinero; hacer depósitos bancarios; firmar toda clase de títulos valores y negociar esta clase de instrumentos; firmarlos, aceptarlos, protestarlos, endosarlos, pagarlos, descargarlos, tenerlos, etc. comparecer en los juicios en que se discuta la propiedad de los bienes sociales o cualquier derecho de la Compañía; transigir, comprometer, desistir, novar, recibir e interponer acciones y recursos de cualquier género en todos los negocios o asuntos de cualquier índole que tenga pendiente la compañía; representar a la sociedad ante cualquier clase de funcionarios, tribunales autoridades, personas jurídicas o naturales, etc. y en general actuar en la dirección de las empresas sociales. Si se tratare de ejecución de un acto o de la celebración de un contrato por cuenta de la sociedad; para que dicho acto o contrato obligue a ésta es necesario que sea de aquellos para los cuales el Gerente general no tiene restricción alguna en los estatutos o que el órgano de la compañía o quien corresponda autorizar a dicho funcionario se haya pronunciado favorablemente en el sentido de conocer la mención autorización y de ello haya quedado la constancia respectiva. Se entiende que no existe restricción alguna para el Gerente General en la ejecución de actos y en la celebración de contratos que no sean de la naturaleza de aquellos para los cuales los estatutos han señalado como necesaria la autorización previa de otro órgano directivo.

- f) Convocar a la Asamblea General de Accionistas y a la Junta Directiva de la Compañía a sesiones extraordinarias, cada vez que el juzgue conveniente necesario, en el caso de la Asamblea, cuando se lo solicite un número de accionistas que represente, por lo menos, el veinticinco por ciento (25%) de las acciones suscritas.

g) Presentar a la Asamblea General de Accionistas, en sus sesiones ordinarias, en asocio de la Junta Directiva, el balance de cada ejercicio, y un informe escrito sobre la forma como hubiere llevado a cabo su gestión y las medidas cuya adopción recomiende a la Asamblea.

h) Informar a la Junta Directiva, acerca del desarrollo de los negocios y demás actividades sociales, someterle prospectos para el mejoramiento de las empresas que explote la compañía y facilitar a dicho órgano directivo el estudio de cualquier problema, proporcionándole los datos que requiera.

i) Apremiar a los empleados y demás servidores de la compañía a que cumplan los deberes de su cargo y vigilar continuamente la marcha de las empresas de la misma, especialmente su contabilidad y archivo.

j) Cuidar de que la recaudación o inversión de los fondos de la empresa se hagan debidamente. Ejercer todas las facultades que directamente deleguen en él la Asamblea General de Accionistas y la Junta Directiva.

Realizar los actos y contratos, y las operaciones financieras, de

obtención de créditos e inversiones de recursos necesarias para el giro ordinario del negocio incluyendo el pago de obligaciones tributarias, hasta por un monto igual o superior a 2000 SALARIOS MINIMOS LEGALES MENSUALES VIGENTES. Si la operación supera el monto de 2000 SALARIOS MINIMOS LEGALES MENSUALES VIGENTES, deberá ser autorizado por la Junta Directiva.

LIMITACION:

Que entre las funciones de la Junta Directiva, está la de:

Autorizar al Gerente General de la compañía para que a nombre de ésta ejecute o celebre actos o contratos, cuando la cuantía de las obligaciones que de cada uno de ellos se derive para la misma exceda de una cantidad equivalente a DOS MIL SALARIOS MINIMOS LEGALES MENSUALES VIGENTES, al momento de liquidarse la obligación, o que siendo de un valor indeterminado puedan asumir esa cuantía. No obstante para compras de materia prima y venta de productos elaborados de aquellos con que negocia habitualmente la compañía, no habrá restricción en materia de cuantía en cuanto a la capacidad del Gerente General para obrar a nombre de la compañía. Dentro de estas últimas operaciones se entenderán comprendidas las de apertura de cartas de crédito, aceptación de letras de cambio y todos los actos referentes a tales títulos valores cuando se creen para llevarlas a cabo.

CERTIFICA

JUNTA DIRECTIVA

CARGO	NOMBRE	IDENTIFICACION
PRINCIPAL	ALVARO GOMEZ JARAMILLO	8.299.028
	DESIGNACION	

VALIDO POR AMBAS CARAS

No. CC 10723593

Por Extracto de Acta Nro 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara de Comercio el 15 de enero de 2004, en el libro 9o., bajo el Nro 297.

PRINCIPAL MONICA GOMEZ DE PELAEZ 21.384.343

DESIGNACION

Por Extracto del Acta Nro. 96 de diciembre 11 de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara de Comercio el 15 de enero de 2004, en el libro 9o., bajo el Nro 297.

PRINCIPAL JOSE ANTONIO GOMEZ JARAMILLO 70.546.880
DESIGNACION

Por extracto de Acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

PRINCIPAL SCOTT JUNGLES 204.813.511
DESIGNACION

Por extracto de acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

PRINCIPAL ALFREDO CARRERO 209.426.189
DESIGNACION

Por extracto de acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

PRINCIPAL JAN SCHIAVONE 23.014.752
DESIGNACION

Por extracto de acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

SUPLENTE JOHN GOMEZ RESTREPO 531.554
DESIGNACION

Por extracto de acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

SUPLENTE MARIA STELLA GOMEZ DE SANIN 32.444.553
DESIGNACION

Por Extracto de Acta Nro 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara de Comercio el 15 de enero de 2004, en el libro 9., bajo el Nro 297.

SUPLENTE PATRICIA GOMEZ DE CAICEDO 32.477.197

VALIDO POR AMBAS CARAS

69
150

DESIGNACION

Por Extracto de Acta Nro 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara de Comercio el 15 de enero de 2004, en el libro 9o., bajo el Nro 297.

SUPLENTE	OLA SPRINGFORS	9.508.230
	DESIGNACION	

Por extracto de acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

SUPLENTE	BAREND STEENHUIS	84.516.322
	DESIGNACION	

Por extracto de acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

SUPLENTE	ANTONIO DUARTE AMEZQUITA	19.230.082
	DESIGNACION	

Por extracto de acta número 96 del 11 de diciembre de 2003, de la Asamblea Extraordinaria de Accionistas, registrada en esta Cámara el 18 de diciembre de 2003, en el libro 9, bajo el número 12027

CERTIFICA

CARGO	NOMBRE	IDENTIFICACION
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REVISORA FISCAL	PRICEWATERHOUSECOOPERS	
	DESIGNACION	

Por Extracto del acta número 97 del 26 de marzo de 2004, de la asamblea general de accionistas registrada en esta Cámara el 18 de juni de 2004, en el libro 9, bajo el número 6141

Que según comunicación de junio 2 de 2004, registrada en esta Entidad el 18 de junio de 2004, en el libro 9o., bajo el No. 6141, la Revis ra Fiscal, la Firma PRICEWATERHOUSECOOPERS, designó los siguientes Revisores Fiscales:

REVISOR FISCAL PRINCIPAL	JORGE NELSON ORTIZ CHICA	98.550.396
	DESIGNACION	

REVISOR FISCAL SUPLENTE	CARLOS ENRIQUE GORDILLO	
14.229.506		

BOLAÑOS
DESIGNACION

CERTIFICA

PODERES:

VALIDO POR AMBAS CARAS

No. CC 10723594

COMISARIA S.A. CERTIFICADO DE AUTENTICIDAD DEL LIBRO 9 DEL 2004 DEL 17 DE ENERO DEL 2004

- Que según Acta No.562 del 01 de noviembre de 2000 de la Junta Directiva, registrado su extracto en esta Entidad el 23 de febrero de 2001, en el libro 5o., folio 14, bajo el No.95, se autoriza al Gerente General, doctor Luis Carlos Uribe Jaramillo y/ a su Suplente, Doctor ALBERTO CHAVARRIAGA GONZALEZ, para facultar al Doctor GABRIEL JAIRO CARDONA ARBOLEDA C.C. 71581447, para firmar poderes, endosar y hacer la veces de Representante Legal de la compañía, en todas la operaciones de comercio exterior.

PODER GENERAL: Que por escritura No.1319 del 2 de abril de 2001, de la Notaría 4a. de Medellín, registrada en esta Entidad el 10 de abril de 2001, en el libro 9o., folio 26, bajo el No.182, se le confiere PODER GENERAL, amplio y suficiente, a GABRIEL JAIRO CARDONA ARBOLEDA, C.C. 71.581.447, para que, actuando a nombre de la sociedad, como apoderado general, intervenga en todos los trámites relativos a cualquier tipo de operación cambiaria, y a las operaciones de comercio exterior de la compañía, bien sea por importaciones o exportaciones de bienes o servicios o por otras operaciones cambiarias diferentes, quedando especialmente facultado para que, con relación a esos trámites y operaciones, suscriba toda clase de documentos oficiales o privados, declaraciones y formulario cambiarios, comprometa la responsabilidad de la sociedad, otorgue los poderes a las sociedades de intermediación aduanera que sean necesarios, interponga los recursos que sean pertinentes respecto de los actos administrativos que se produzcan con ocasión o por causa de esos mismos trámites y operaciones, y en general para que actúe, con las amplias facultades, en todo lo que haga relación a las operaciones cambiarias y/o de comercio exterior en que sea parte la sociedad. El apoderado puede sustituir el presente poder t tal parcialmente.

AMPLIACION PODER:

Que mediante escritura No. 2371 del 15 de agosto de 2001, de la Notaría 20a. de Medellín, registrada en esta Cámara de Comercio el 22 de agosto de 2001, en el libro 5o., folio 66, bajo el No.457, se AMPLIA el Poder General, otorgado al señor GABRIEL JAIRO CARDONA ARBOLEDA, conferido mediante escritura No.1319 del 2 de abril de 2001, de la Notaría 4a. de Medellín.

PODER ESPECIAL: Que mediante documento privado del 13 de agosto de 2001, registrado en esta Cámara de Comercio el 22 de agosto de 2001, en el libro 5o., folio 66, bajo el No.460, se confiere PODER ESPECIAL de naturaleza extrajudicial a favor de JUAN FELIPE HOYOS BOTERO con C.C.71714123 de Medellín, y JOSE FELIX ESCOBAR CORREA c n C.C.3314167 de Medellín, a fin de que los apoderados, obrando separadamente, representen a la sociedad ante la Administración de Impuestos Nacionales de Medellín, la Dirección General de Impuestos Nacionales, las administraciones de impuestos de las demás ciudades del país, las secretarías de Hacienda Municipales, y los municipios de Colombia en general, en lo relacionado con los impuestos sobre las ventas, renta y complementarios, timbres, retenciones en la fuente, impuesto de industria y comercio, impuestos complementarios de avisos y tableros, y demás impuestos de índole municipal, quedando expresamente facultados para firmar y presentar declaraciones, contestar requerimientos, interponer recursos, atender visitas e

inspecciones y, en fin, llevar la representación de las sociedades en todos los asuntos relacionados con el cumplimiento de obligaciones sustanciales y formales en todas las etapas de determinación de los tributos.

PODER ESPECIAL: Que según escritura pública No. 2360 de noviembre 14 de 2002, de la Notaría 7a. de Medellín, inscrita en esta Entidad el 25 de noviembre de 2002, en el libro 5o., bajo el No. 618, la sociedad confiere PODER ESPECIAL pero amplio y bastante en cuanto a derecho se requiere, a favor de los señores FRANCISCO JAVIER UTRERA con C.I. 4.772.082 y MARIA ALEJANDRA MOLINA con C.I. 13.952.708 (Quienes no han aceptado), para que conjunta o separadamente representen a PRODUCTOS FAMILIA S.A. y las acciones propiedad de esta última en el capital social de FAMILIA SANCELA VENEZUELA S.A. específicamente en los siguientes asuntos:

1) En todas las Asambleas Ordinarias y/o Extraordinarias de la sociedad mercantil venezolana FAMILIA SANCELA VENEZUELA S.A. pudiendo a tal efecto, votar y deliberar en cualquier asunto sometida a la consideración de dichas asamblea, incluyendo la suscripción, adquisición y pago de acciones de capital social de esta última compañía, designación de administradores, directores, comisarios y funcionarios, aprobación de modificaciones al Documento Constitutivo y de los estatutos y cualesquiera otros puntos.

2) Para ejercer la representación de PRODUCTOS FAMILIA S.A. ante la Superintendencia de Inversiones Extranjeras de Venezuela (SIEEX) y cualquier Organismo competente en la materia, a fin de solicitar el registro de las inversiones extranjeras que realizare en Venezuela, quedando autorizados para actuar en nombre de mi representada, en todo lo relacionado con gestiones en Venezuela referente a lo anterior. A tales efectos, podrán los prenombrados apoderados, presentar ante los Organismos, Dependencias y Agencias Gubernamentales Venezolanas, cualquier tipo de solicitudes, escritos, representaciones, apelaciones, recursos y documentos que sean de la competencia de los referidos Organismos y, en general, realizar por ante los mismos cualesquiera gestiones y diligencias, en el entendido de que la anterior enumeración de facultades es a título enunciativo y no limitativo.

PODER ESPECIAL: Que mediante escritura No. 2862 de diciembre 23 de 2002, de la Notaría 7a. de Medellín, registrada en esta Entidad el 10 de enero de 2003, en el libro 5o., bajo los Nos. 10, 11, 12 y 13, respectivamente les fue conferido PODER ESPECIAL a los Sres. ALVARO CORREA ORDOÑEZ, C.C. 79.143.366, JUAN PABLO CONCHA, C.C. 80.416.654, RICARDO METKE MENDEZ, C.C. 19.074.428 y OLGA GEORGETTE OTERO. C.C. 51.925.615, para adelantar ante la Superintendencia de Industria y Comercio -División de Signos Distintivos los siguientes asuntos:

Registro de marcas, renovaciones, inscripción de cambios de nombre y de dirección del titular, traspasos; licencias de uso, lemas comerciales y marcas de certificación, depósito o registro de nombres comerciales y enseñanzas; oposiciones, acciones de cancelación; para adelantar ante el Consejo de Estado la prestación y contestación de acciones de nulidad y acciones de nulidad y restablecimiento del derecho, para adelantar ante los jueces civiles del circuito acciones de usurpación de marcas, y acciones de defensa de marcas y para adelantar ante las autoridades

VALIDO POR AMBAS CARAS

No. CC 10723595

Aduaneras medidas en favor de Product s Familia S.A. y demás acciones judiciales, así como medidas cautelares y medidas en frontera relacionadas con procesos de propiedad industrial, a cuyo efecto lo faculta para adelantar ante dichas autoridades todos los pasos necesarios al objeto indicado, elevar solicitudes, presentar recursos y reclamos, pagar tasas e impuestos, solicitar testimonios, recibir documentos y valores, transigir, desistir, percibir. Se concede a los expresados mandatarios poder suficiente para recibir notificaciones a nombre de la compañía, representar a la compañía judicial o extrajudicialmente u otorgar poderes para tal efecto, responder en juicio a todas las reclamaciones o demandas relacionadas con estas materias y hacer cuanto fuere necesario, para la adecuada defensa de los intereses de la sociedad, ante las autoridades administrativas o judiciales de cualquier orden, dándoles así mismo facultad para sustituir el poder y en caso necesario revocar dichas sustituciones.

PODER ESPECIAL: Según Escritura pública No. 3002, de diciembre 3 de 2003, de la Notaría 7a. de Medellín, registrada en esta Cámara el 12 de diciembre de 2003, en el libro 5o., bajo el No. 694, se le confiere **PODER ESPECIAL**, amplio y suficiente a **MERCO REPRESENTACIONES S.A. S.I.A.**, con Nit. 800.227.414-3, sociedad legalmente constituida mediante Escritura Pública No. 767, de abril 28 de 1994, otorgada por la Notaría Unica de Riohacha, Departamento de la Guajira, inscrita en la Cámara de Comercio de Barranquilla el día 7 de noviembre de 1999, bajo el No. 66.551, del libro respectivo, con Matrícula Mercantil 221.95, refermada por la escritura 2.572, de la Notaría 1a. del Círculo de Barranquilla de fecha septiembre 5 de 2003, inscrita en la Cámara de Comercio de esa ciudad el día 23 de septiembre de 2003, para que en nombre y representación de la sociedad, adelante ante las Administraciones de Aduana de todo el país, los trámites aduaneros correspondientes a las importaciones, exportaciones, tránsitos aduaneros, retiro de mercancías, devoluciones, recursos de ley, notificaciones ante la DIAN en relación con actos de fiscalización, liquidaciones oficiales, devoluciones, levante o cualquier acto administrativo a que hubiere lugar, relacionado con la actividad aduanera y comercio exterior.

CERTIFICA

GRUPO EMPRESARIAL

MATRIZ 002643 04 PRODUCTOS FAMILIA S A

DOMICILIO MEDELLIN - COLOMBIANA

ACTIVIDAD ADQUIRIR POR CONCESION O POR OTRO TITULO CUALQUIERA, EL DERECHO A EXPLOTAR BOSQUES DE LA NACION O DE PARTICULARES.

Controla a:

143287 04 SORESA SOCIEDAD RECUPERADORA S.A.

SIGLA SORESA

DOMICILIO: ITAGUI - COLOMBIANA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO, POSEE MAS DEL 50% DEL CAPITAL

ACTIVIDAD COMERCIALIZACION DE INSUMOS PARA LA INDUSTRIA PAPELERA

VALIDO POR AMBAS CARAS

DOCUMENTO: PRIVADO DEL 28 DE FEBRERO DE 2003
DATOS INSCRIPCION: Libro 9 Nro 2304 03/03/10

183344 03 PULPAPEL LTDA

DOMICILIO: MEDELLIN - COLOMBIANA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO:
INVERSION DEL 99.99%

ACTIVIDAD INVERSIONES EN LA INDUSTRIA PAPELERA Y REFORESTADORA

DOCUMENTO: PRIVADO DEL 26 DE ABRIL DE 2002

DATOS INSCRIPCION: Libro 9 Nro 9683 97/11/24

311670 04 DIAMONI LOGISTICA S.A.

SIGLA DIAMONI S.A.

DOMICILIO: MEDELLIN - COLOMBIANA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO:
POSEE MAS DEL 50% DEL CAPITAL

ACTIVIDAD TRANSPORTE DE MERCANCIA

DOCUMENTO: PRIVADO DE ABRIL 8 DE 2003

DATOS INSCRIPCION: Libro 9 Nro 3640 03/04/09

FAMILIA DEL PACIFICO LTDA

DOMICILIO: CALOTO - COLOMBIANA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO:
INVERSION DEL 99.99%

ACTIVIDAD FABRICACION DE PANALES Y PRODUCTOS DE PAPEL

DOCUMENTO: PRIVADO DEL 26 DE ABRIL DE 2002

DATOS INSCRIPCION: Libro 9 Nro 9683 97/11/24

PRODUCTOS FAMILIA SANCELA DEL ECUADOR S.A.

DOMICILIO: QUITO - ECUATORIANA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO:
INVERSION DEL 100%

ACTIVIDAD FABRICACION DE PRODUCTOS DE PAPEL

DOCUMENTO: PRIVADO DEL 26 DE ABRIL DE 2002

DATOS INSCRIPCION: Libro 9 Nro 9683 97/11/24

PRODUCTOS SANCELA DEL PERU S.A.

DOMICILIO: LIMA - PERUANA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 3 DEL CODIGO DE COMERCIO:
INFLUENCIA DOMINANTE EN LAS DECISIONES DE LOS ORGANOS DE ADM

ACTIVIDAD IMPORTACION Y EXPORTACION Y/O VENTA DE PRODUCTOS DE
PROTECCION SANITARIA

DOCUMENTO: PRIVADO DEL 26 DE ABRIL DE 2002

DATOS INSCRIPCION: Libro 9 Nro 3246 02/04/09

PRODUCTOS FAMILIA DE PUERTO RICO INC

DOMICILIO: SAN JUAN DE PUERTO RICO - PUERTORRIQUEÑA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO:
INVERSION DEL 100%

ACTIVIDAD MANUFACTURAR, PROCESAR, COMPRAR, VENDER, IMPORTAR Y

VALIDO POR AMBAS CARAS

EXPORTAR PAPEL TISSUE EN TODAS SUS FORMAS, ETC
DOCUMENTO: PRIVADO DEL 26 DE ABRIL DE 2002
DATOS INSCRIPCION: Libro 9 Nro 4292 02/05/09

FAMILIA SANCELA DE VENEZUELA S.A

DOMICILIO: CARACAS - VENEZOLANA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO:
INVERSION DEL 100%

ACTIVIDAD ADQUIRIR POR CONCESION O POR OTRO TITULO EL DERECHO A
EXPLORAR BOSQUES DE LA NACION O PARTICULARES, ETC

DOCUMENTO: PRIVADO DEL 26 DE ABRIL DE 2002

DATOS INSCRIPCION: Libro 9 Nro 4292 02/05/09

SANCELA JAMAICA LIMITED

DOMICILIO: JAMAICA - JAMAQUINA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 1 DEL CODIGO DE COMERCIO:
INVERSION DE MAS DEL 50%

ACTIVIDAD COMERCIALIZAR, EXPORTAR, IMPORTAR, COMPRAR Y VENDER
MERCANCIAS Y PARTICULARMENTE PRODUCTOS DE PAPEL Y PRODUCTOS
SANITARI

DOCUMENTO: PRIVADO DEL 26 DE ABRIL DE 2002

DATOS INSCRIPCION: Libro 9 Nro 4292 02/05/09

SANCELA CHILE S.A.

DOMICILIO: CHILE - CHILENA

Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 3 DEL CODIGO DE COMERCIO:
INFLUENCIA DOMINANTE EN LAS DECISIONES DE LOS ORGANOS DE
ADMINISTRACION

ACTIVIDAD COMERCIALIZAR, EXPORTAR, IMPORTAR, COMPRAR Y VENDER
MERCANCIAS Y PARTICULARMENTE PRODUCTOS DE PAPEL Y PRODUCTOS
SANITARIOS.

DOCUMENTO: PRIVADO DEL 28 DE FEBRERO DE 2003

DATOS INSCRIPCION: Libro 9 Nro 2304 03/03/10

CONTINENTAL DE NEGOCIOS S.A.

DOMICILIO: Subordinada

PRESUPUESTO: ARTICULO 261-INCISO 3 DEL CODIGO DE COMERCIO.

ACTIVIDAD COMPRA, VENTA, IMPORTACION, EXPORTACION Y
REPRESENTACION DE MERCANCIA EN GENERAL.

DOCUMENTO: PRIVADO DEL 24 DE FEBRERO DE 2004

DATOS INSCRIPCION: Libro 9 Nro 1842 04/02/25

CERTIFICA

NOTIFICACION DE DIRECCION JUDICIAL

Carrera 50 8 SUR 117 MEDELLIN

CERTIFICA

Que en la CAMARA DE COMERCIO DE MEDELLIN PARA ANTIOQUIA, no aparece
inscripción posterior a la anteriormente menci nada, de document s

VALIDO POR AMBAS CARAS

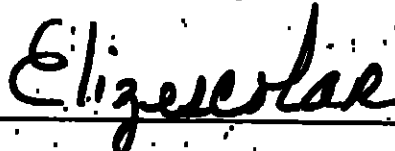
referentes a reforma, disolución, liquidación nombramiento de representantes legales de la expresada entidad.

Los actos de inscripción aquí certificados quedan en firme cinco (5) días hábiles después de la fecha de su notificación, siempre que no hayan sido objeto de los recursos de la vía gubernativa en los términos establecidos en el artículo 50 del Código Contencioso Administrativo.

CERTIFICA

Fecha de Renovación: Marzo 24 de 2004

Medellin, Diciembre 02 de 2004 Hora: 11:44 AM



ELIZABETH ESCOBAR GUENDICA

VALIDO POR AMBAS CARAS

No. CC 10723597

226
Familia

73

159

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800174089-2

RECIBO OFICIAL DE CAJA : 04 - 99,214
FECHA : DICIEMBRE 24 DE 2004

SUPERINDUSTRIA Y COMERCIO
Radicación : 04061301 00000003 Folios:
Fecha (MM): 2004-12-27 16:29:18
Trámite : 011 PCT-PATENT 379 FASE NACT 400 OPUSC
Dependencia: 2000 DIVISION DE NUEVAS CREACIONES

***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
GOMEZ PINZON Y ASOCIADOS CONSIGNACION		BANCO POPULAR	050-00110-6	30435425	23/12/2004	2,341,000.00

***** C O N C E P T O *****

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-04	PRESENTACION DE OBSERVACIONES	
12		MARCAS Y LEHAS COMERCIALES	224,000.00
		TOTAL :	224,000.00

SON: DDCIENTOS VEINTICUATRO MIL PESOS

RESPONSABLE : _____

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____