

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
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DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 378 FASE NACIONAL INCLUIDO CAPITULO I
TRA: 11 PCT-PATENTE DE INVENCION CAPITULOS I Y II	FOLIOS: 13
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
JUAN CARLOS URIBE RESTREPO

Asunto: Radicación: 14-139580- -8
Trámite: 11
Evento: 378
Actuación: 519
Oficio: 4953
Folios: 13

Patente de Invención	X			Patente de Modelo de Utilidad	
Vía Nacional					
Vía PCT (Fase Nacional)	X	Capítulo I	X	Capítulo II	
No. Solicitud Internacional	PCT/GB2012/052950				
Fecha de Presentación Internacional	29/11/2012				

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

1. Documentos estudiados

Descripción:	Rad. N° 14-139580-00000-0000	27/junio/2014
Reivindicaciones:	Rad. N° 14-139580-00007-0000	29/marzo/2016
Dibujos:	Rad. N° 14-139580-00000-0000	27/junio/2014
Prioridades:	GB 1120693,5	01/diciembre/2011

2. Análisis de la Prioridad

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

3. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del Capítulo Primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por el solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. Por lo tanto, se estudiaran las reivindicaciones 1 a 9 (Páginas 8 y 9, radicado N° 14-139580-00007-0000).

Título de la solicitud: “Vendaje para heridas para ser usado en terapia de vacío” (Página. 1, radicado N° 14-139580-00000-0000).

El problema planteado en esta solicitud, consiste en la necesidad de mejorar un vendaje para heridas, el cual sea usado en terapias con vacío, que permita doblarse fácilmente para llenar el sitio de la herida, que sea fibroso pero tenga mínimas pérdidas de fibras en la herida, que tenga resistencia a la humedad y sea de fácil remoción.

Para resolver este problema técnico, la solicitud en estudio propone un vendaje para herida que comprende una capa de contacto con la herida la cual es una estructura abierta con un hilo el cual comprende filamentos o fibras formadoras de gel, la estructura tiene una porosidad la cual permite que el exudado fluya a través de esta.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes A61F13/00; A61L15/42; A61L15/60; D02G3/04; D02G3/44; D06M13/21; D06M23/10.

4. De la solicitud de patente

Reivindicaciones (Art 30 D 486)

El capítulo reivindicatorio no es claro porque:

- En las reivindicaciones 1, 2, 6 y 7, las expresiones: “estructura abierta”, “filamentos o fibras formadoras de gel”, “lecho de herida”, “se adapta”, “hilo de textil”, “película de soporte al disolverla”, “con vacío”, “fuente de vacío”, “modificar químicamente”, son generales y no definen con claridad las cantidades o productos a los cuales se refieren, por lo tanto, incluyen todas las posibles alternativas presentes o futuras, se sugiere remplazarlo por las características esenciales para definir con precisión lo que se desea proteger.
- La estructura de la reivindicación 1 tiene más de un enlace gramatical al mencionar “que comprende”, por lo cual no permite distinguir claramente el objeto que se desea proteger.
- La reivindicación 6 presenta características funcionales del método como lo son: “separada de un lecho de herida por el vendaje de herida”, “para retener el vacío relativo en la capa de contacto con la herida”, es importante recordar que aunque estas características funcionales pueden ir dentro de las reivindicaciones, su función es dar claridad a las mismas, por lo que no le pueden dar novedad o nivel inventivo ya que no se consideran características técnicas esenciales.
- La reivindicación 7 presenta falsa dependencia con la reivindicación 1, puesto que, la reivindicación 7 hace referencia a un método al mencionar “Un proceso para fabricar una estructura abierta”, mientras que la reivindicación 1 se refiere a un producto al mencionar “Un vendaje de terapia de herida con vacío”. Al respecto no debe olvidarse que las reivindicaciones de producto y de método son diferentes y, por ello, deben redactarse de manera independiente en el pliego reivindicatorio. Sobre las mismas, el Tribunal Andino de Justicia ha dicho lo siguiente:

“El objeto de la invención de producto esta constituido por un cuerpo cierto destinado a llenar una necesidad industrial que el estado de la técnica aun no ha satisfecho. En cambio, el objeto de la invención de procedimiento se encuentra conformado por “una serie o sucesión de operaciones que inciden sobre una materia (sólida, líquida o gaseosa) que se encamina a la obtención de una cosa o un resultado”. (Otero Lastres, José Manuel. Ob. Cit)¹

- El términos de la reivindicación 9, “por lo menos”, son imprecisos, por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término preciso o un rango concreto

¹ Proceso 129-IP-2007

5. Determinación del Estado de la Técnica

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

Ítem	Documento	Título	Fecha de Publicación
D1	WO 98/46818	"Knitted wound dressings and method for making same"	22/10/1998
D2	WO 2006/052839	"vacuum wound dressing"	05/10/2006
D3	WO 93/12275	"Cellulosic fibres"	24/06/1993
D6	US 795,112,4	"Growth stimulating wound dressing with improved contact surfaces"	31/05/2011
D7	EP 052,506,2	"Process for stiffening a textile fabric"	02/08/1995

El documento D1² divulga un apósito (vendaje) para heridas que comprende una mezcla de fibras textiles y fibras que forman gel en el que el apósito es un tejido de punto que comprende hilo de apoyo (Resumen).

El documento D2³ divulga un apósito para heridas en vacío que comprende: una capa de contacto con la herida que comprende una mezcla fibrosa o material fibroso que se forma un gel cohesivo cuando se humedece por exudado de la herida; una fuente de vacío situada al ser separado del lecho de la herida por la capa de contacto con la herida; y una capa de sellado al vacío que cubre la capa de contacto con la herida y adaptado para retener vacío relativo en la capa de contacto con la herida, en el que (i) el apósito está esencialmente falta un no gelificante, capa de espuma en la que se ubica la fuente de vacío o (ii) la capa de sellado al vacío comprende una capa externa como una capa de espuma (Resumen).

El documento D3⁴ divulga una fibra de carboximetil celulosa que tiene un grado de sustitución de al menos 0,1, preferiblemente 0,2 a 0,5, grupo carboximetilo por unidad de glucosa, se deriva de fibra de celulosa hilada con disolvente, por ejemplo por reacción con un álcali fuerte y un reactivo de monocloroacetato. La fibra tiene una absorbencia de al menos 8 gramos, por lo general al menos 15 gramos de solución salina al 0,9% por gramo de fibra y una tenacidad de al menos 10, por lo general al menos 15cN/tex (Resumen).

El documento D6⁵ divulga un dispositivo de contacto con la herida que comprende un material permeable y una capa de contacto con la herida que tiene huecos que se extienden a través de la capa de contacto a una profundidad en el material permeable. La capa de contacto con la herida puede comprender una hoja delgada o película que forma una superficie de contacto de la herida generalmente plana y lisa que no tiene esencialmente discontinuidades o huecos. La capa de contacto con la herida puede comprender una hoja delgada de tejido altamente calandrada forma una superficie de contacto con la herida que tiene una rugosidad superficial media en el intervalo de aproximadamente 0 micras a aproximadamente 200 micras. En la curación de heridas progresiva, una forma de realización del dispositivo de contacto con la herida que tiene la superficie de contacto de la tela se utiliza en etapas de curación anteriores y una forma de realización del dispositivo de contacto con la herida con la superficie de contacto de la

2 <http://worldwide.espacenet.com/publicationDetails/biblio?CC=WO&NR=9846818A1&KC=A1&FT=D>

3 <http://worldwide.espacenet.com/publicationDetails/biblio?CC=WO&NR=2006052839A3&KC=A3&FT=D>

4 <http://worldwide.espacenet.com/publicationDetails/biblio?CC=WO&NR=9312275A1&KC=A1&FT=D>

5 http://worldwide.espacenet.com/publicationDetails/originalDocument?CC=US&NR=7951124B2&KC=B2&FT=D&ND=&date=20110531&DB=&locale=en_EP

película se utiliza en las etapas posteriores de cicatrización. El dispositivo de contacto con la herida es particularmente útil en apósitos para heridas para su uso en terapia de la herida asistida por succión (Resumen).

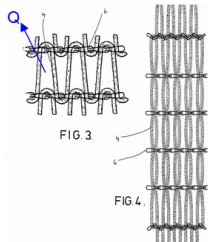
El documento D7⁶ divulga un método de estabilización de tejidos por impregnación con un agente de refuerzo soluble en agua para que el tejido que no se estira fácilmente en cualquier dirección, el agente de refuerzo soluble en agua se prepare mediante la producción de una mezcla de alcohol de polivinilo y agua. Los materiales producidos de esta manera son particularmente adecuados para el trabajo de bordado, para el corte preciso de los materiales, y en el proceso de apliques (Resumen).

6. Examen de Patentabilidad (Art 14 D486)

Nivel inventivo (Art18 D486)

La reivindicación 1 consiste en: “*Un vendaje de terapia de herida con vacío que comprende (...)*” (Ver página 8 del radicado N° 14-139580-00007-0000).

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

Características esenciales	D6	D1
Un vendaje de terapia de herida con vacío que comprende	Un vendaje de heridas para el tratamiento de una herida por succión para estimular la actividad celular en la herida para facilitar la curación de la herida, el apósito para heridas que comprende (Reivindicación 11)	Un vendaje para heridas como se reivindica en la reivindicación 1, el apósito que comprende (Reivindicación 2).
una capa de contacto con la herida la cual es una estructura abierta	un material permeable que tiene intersticios interconectados para el transporte de fluido de la herida y una superficie de contacto con la herida, la superficie de contacto con la herida que comprende una película fina formada de un material que es resistente a la adhesión a la herida y que está dispuesto para acoplarse directamente a la herida, pero no adherirse a la herida (Reivindicación 11).	En la figura 3 y 4, se observa que las redes dejan espacios (Q) entre cada amarre. 
que comprende filamentos o fibras formadoras de gel,	en el que el recubrimiento es un recubrimiento de hidrogel (Reivindicación 9) No especifica que comprenda filamentos o fibras formadoras de gel	desde 5% a 95% en peso de fibras formadoras de gel (...) de 5% a 95% en peso de fibras textiles (Reivindicación 2).
la estructura tiene un tamaño de poro o de malla entre 0,5 mm ² a 5,0 mm ² .	un material permeable que tiene intersticios interconectados para el transporte de fluido de la herida y una superficie de contacto con la herida, la superficie de contacto con la herida que comprende una película fina formada de un material que es	No menciona

6 <http://worldwide.espacenet.com/publicationDetails/biblio?CC=EP&NR=0525062B1&KC=B1&FT=D>

	resistente a la adhesión a la herida y que está dispuesto para acoplarse directamente a la herida, pero no adherirse a la herida (Reivindicación 11). Los huecos (304) tienen un diámetro en la superficie de contacto con la herida (310) en el intervalo de aproximadamente 1000 micrómetros a aproximadamente 2000 micrómetros (0.78 mm² a 3.14 mm²) (Pág. 17, Col. 6, líneas 27 a 30).	
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El documento D6 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 1, porque divulga dispositivos de contacto de la herida que se coloca en contacto directo con una herida bajo vendajes o bajo cubiertas de sellado para uso en terapia de heridas asistida por succión o presión negativa (D6: Pág. 15, Col. 1, líneas 18 a 21).

La diferencia entre la invención definida en la reivindicación 1 y el dispositivo divulgado en D1, consiste en que este último no menciona que el vendaje contenga filamentos o fibras formadoras de gel.

El efecto técnico que se tiene al incluir filamentos o fibras formadoras de gel en el vendaje es permitir que la fibra se vuelva resbalosa o gelatinosa para reducir la tendencia de las fibras circundantes de adherirse a la herida.

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: “¿Como modificar el vendaje de D6 con el fin de permitir que la fibra se vuelva resbalosa o gelatinosa para reducir la tendencia de las fibras circundantes de adherirse a la herida?”.

Sin embargo, ya era conocido en el estado de la técnica la aplicación fibras formadoras de gel en vendajes, puesto que, de el documento D1 menciona un apósito para heridas que comprende una mezcla de fibras textiles y de fibras formadoras de gel en el que el apósito se un tejido de punto que comprende hilo de soporte y en-establecido hilo (Reivindicación 1), las fibras formadoras de gel son preferiblemente fibras de carboximetilcelulosa de sodio, fibras celulósicas químicamente modificadas, en fibras de celulosa carboximetiladas (...) fibras de pectina, fibras de alginato, fibras hechas de un compuesto de alginato y otro polisacárido, fibras de quitosano, hialurónico fibras de ácido, u otras fibras de polisacáridos o fibras derivadas de gomas (Pág. 4, líneas 32 a 34, Pág. 5, líneas 5 a 9) donde estas fibras después de la absorción de exudado de la herida se vuelven húmedas y resbaladizas o gelatinosa y por lo tanto reducen la tendencia para las fibras circundantes a adherirse a la herida (...) también al hincharse pueden separar las fibras textiles de la superficie de la herida manteniendo su integridad estructural en o perdiendo su forma fibrosa convirtiéndose en un gel sin estructura (Pág. 6, Líneas 21 a 30).

En consecuencia, la persona del oficio normalmente versada en la materia enfrentada al problema técnico de modificar el vendaje de D6 con el fin de permitir que la fibra se vuelva resbalosa o gelatinosa para reducir la tendencia de las fibras circundantes de adherirse a la herida, estaría motivada para incluir fibras formadoras de gel que después de la absorción de exudado de la herida se vuelven húmedas y resbaladizas o gelatinosa y por lo tanto reducen la tendencia para las fibras circundantes a adherirse a la herida como es divulgado en el vendaje de D1, llegando así al objeto de la reivindicación 1, por lo cual se considera obvia.

Asimismo, el documento D6 divulga las características de la reivindicación dependientes así:

- La reivindicación 2 y 5. Los huecos (304) tienen un diámetro en la superficie de contacto con la herida (310) en el intervalo de aproximadamente 1000 micrómetros a aproximadamente 2000 micrómetros (0.78 mm² a 3.14 mm²) (Pág. 17, Col. 6, líneas 27 a 30).
- La reivindicación 4. Un material fibroso se puede utilizar para formar el material estructurado del dispositivo de contacto con la herida, el material fibroso que tiene todas las flexibilidades proporcionadas por las artes textiles. textiles fibrosos se pueden formar en una estructura adecuada para su uso en un dispositivo de contacto con la herida por varios métodos. Entre estos métodos están tejido de punto, bordar, trenzado, fieltro, unión por hilatura, soplado en fusión y cada uno de estos métodos se puede adaptar adicionalmente para producir un material que tiene una estructura de superficie discontinua que incluye elementos de contacto de la herida y los espacios vacíos, como se describe en el presente documento (Pág. 17, Col. 5, líneas 45 y 54).

Cabe mencionar, que para afectar la reivindicación 3 el examinador en su análisis de nivel inventivo, se basó en su conocimiento general sobre el estado de la técnica y realizó las comparaciones con su apreciación en conjunto, determinando que con tales conocimientos existentes se llega a la invención reivindicada. Sobre el saber general el experto medio, el Tribunal Andino de Justicia ha dicho lo siguiente:

“El experto medio deberá poseer experiencia y contar con un saber general en la materia y con una serie de conocimientos en el campo específico de la invención.”

Dichas reivindicaciones fueron afectadas así: es conocimiento del técnico medianamente versado en la materia que los parámetros físico-mecánicos de hilos para aplicarlos en gasas o vendas comprenden una densidad línea de 20 tex para vendas o gasa estándar, para apósitos o gasas de parafina entre 20 tex a 40 tex y bandas elásticas de 40 tex [7] (Pág. 0151, Tabla 1”).

La reivindicación 6 consisten en: *“Un dispositivo para terapia de heridas con vacío, que comprende: (...)”* (Ver Pág. 8 del Radicado N° 14-139580-00007-0000).

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

Características esenciales	D6	D2
Un dispositivo para terapia de heridas con vacío, que comprende:	Un dispositivo de contacto con la herida conformable flexible para el uso en el tratamiento de una herida por succión para estimular la actividad celular en la herida para facilitar la cicatrización de heridas, el dispositivo de contacto con la herida que comprende (Reivindicación 17)	La figura 4 ilustra un dispositivo de vacío para su uso en el cuidado de heridas (Párr. 0010).
un vendaje de herida con vacío el cual es una estructura abierta que comprende un hilo de filamentos o fibras	la pared lateral de cada uno de los huecos que forman el contorno de una espacio abierto desde el primer extremo del vacío al segundo extremo del vacío, el	La capa de contacto con la herida es, por ejemplo, una mezcla fibrosa o material fibroso (por ejemplo, no tejido) que forma un gel

7 Medical Textiles: Proceedings of the International Conference; 1999; En línea:https://books.google.com.co/books?id=MqvKlySwnDoC&pg=PA151&lpg=PA151&dq=yarn+has+a+linear+density+of+20+tex+to+40+tex+to+dressing&source=bl&ots=4Mk38edv2U&sig=_gitZn1gqcP3D6lUMbTw18tjSPl&hl=es-419&sa=X&ved=0ahUKewjWn4im1_HJAhXI2yYKHdvQCVcQ6AEIjZAC#v=onepage&q=yarn%20has%20a%20linear%20density%20of%2020%20tex%20to%2040%20tex%20to%20dressing&f=false

formadoras de gel,	espacio abierto estar abierto en todo momento (Reivindicación 17) El dispositivo de contacto con la herida canalizado (100) se presiona contra una herida en contacto íntimo con la superficie de la herida. Una presión de 0,1 PSI (5 mm Hg) o más, aplicada por succión o por otros medios, se aplica de manera deseable para presionar la superficie de contacto de la herida (110) (Pág. 18, Col. 7, líneas 1 a 3). en el que el recubrimiento es un recubrimiento de hidrogel (Reivindicación 9) No especifica que comprenda filamentos o fibras formadoras de gel	cohesivo cuando se humedece con exudado de la herida. Un material fibroso tal se puede proporcionar, por ejemplo, una esterilla fibrosa de carboximetilcelulosa de sodio (Párr. 00169) En ciertas realizaciones, el apósito (s) de cuidado de heridas se utiliza con vacío proporcionan capas de sellado al vacío con poros máximos de mayor que 100 micras de tamaño de poro (Párr. 0020)
la estructura tiene un tamaño de poro o malla entre ,5 mm ² a 5,0 mm ² ;	un material permeable que tiene intersticios interconectados para el transporte de fluido de la herida y una superficie de contacto con la herida, la superficie de contacto con la herida que comprende una película fina formada de un material que es resistente a la adhesión a la herida y que está dispuesto para acoplarse directamente a la herida, pero no adherirse a la herida (Reivindicación 11). Los huecos (304) tienen un diámetro en la superficie de contacto con la herida (310) en el intervalo de aproximadamente 1000 micrómetros a aproximadamente 2000 micrómetros (0.78 mm² a 3.14 mm²) (Pág. 17, Col. 6, líneas 27 a 30).	No menciona
una fuente de vacío ubicada para estar separada de un lecho de herida por el vendaje de herida; y	el dispositivo de contacto con la herida canalizado (100) se presiona contra una herida en contacto íntimo con la superficie de la herida. Una presión de 0,1 PSI (5 mm Hg) o más, aplicada por succión o por otros medios, se aplica de manera deseable para presionar la superficie de contacto de la herida (110) contra la superficie de la herida de manera que los elementos de contacto con la herida (106) están en contacto íntimo con el tejido lesionado y los huecos (104) permanecen clara por encima de la superficie de la	Un conector de fuente de vacío (21) (Párr. 0011).

	herida para recibir un nuevo crecimiento de tejido. Preferiblemente, se aplica succión en el intervalo de entre aproximadamente 0,25 PSI (12 mm Hg) y aproximadamente 5 PSI (260 mm Hg). Más preferiblemente, se aplica succión a un nivel entre aproximadamente 0,67 PSI (35 mm Hg) y aproximadamente 1,45 PSI (75 mm Hg) (Pág. 18, Col. 7, líneas 1 a 12).	
una capa de sellado de vacío que cubre el vendaje de herida y se adapta para retener el vacío relativo en la capa de contacto con la herida.	No menciona	El vendaje externo utilizado en el método de vacío puede incluir una capa de sellado exterior que es capa de película (11) de vacío (Párr. 0011).

El documento D6 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 6, porque divulga dispositivos de contacto de la herida que se coloca en contacto directo con una herida bajo vendajes o bajo cubiertas de sellado para uso en terapia de heridas asistida por succión o presión negativa (D6: Pág. 15, Col. 1, líneas 18 a 21).

La diferencia entre la invención definida en la reivindicación 6 y el vendaje de D6, consiste en que este último no especifica que comprenda filamentos o fibras formadoras de gel y que tenga una capa de sellado de vacío.

El efecto técnico que se tiene al recubrir el vendaje con una capa de sellado de vacío, es retener la presión de vacío relativa en la capa de contacto con la herida, por su parte el efecto técnico que se tiene al incluir filamentos o fibras formadoras de gel en el vendaje es permitir que la fibra se vuelva resbalosa o gelatinosa para reducir la tendencia de las fibras circundantes de adherirse a la herida

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: “¿Como modificar el vendaje de D6 con el fin de retener la presión de vacío relativa en la capa de contacto con la herida y reducir la tendencia de las fibras circundantes de adherirse a la herida?”.

Sin embargo, ya era conocido en el estado de la técnica, la aplicación de una capa de sellado de vacío en vendajes, puesto que, en el documento D2 menciona que en el vendaje externo utilizado en el método de vacío puede incluir una capa de sellado exterior que es capa de película (11) de vacío (Párr. 0011), donde la capa de sellado de vacío sirve para limitar la pérdida de presión reducida de tal manera que se tenga un grado terapéutico útil de presión reducida en el sitio de la herida (Párr. 0017), por otra parte menciona una capa de contacto con la herida que comprende una mezcla fibrosa o material fibroso que se forma un gel cohesivo cuando se humedece por exudado de la herida (Párr. 0004), donde dicha capa es de carboximetilcelulosa de sodio que forma un gel cuando se humedece con el exudado de la herida (Párr. 0016).

En consecuencia, la persona del oficio normalmente versada en la materia enfrentada al problema técnico modificar el vendaje de D6 con el fin de retener la presión de vacío relativa en la capa de contacto con la herida y reducir la tendencia de las fibras circundantes de adherirse a la herida, estaría motivada a incluir la capa de película de vacío y la capa de contacto formadora de gel como es divulgado en D2, en el vendaje de D6, llegando así al objeto de la reivindicación 6, por lo cual se considera obvia.

La reivindicación 7 consiste en: “Un proceso para fabricar una estructura abierta que comprende hilo de fibras formadoras de gel como se reclama en la reivindicación 1 (...)” (Ver página 9 del radicado N° 14-139580-00007-0000).

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

Características esenciales	D7	D3
Un proceso para fabricar una estructura abierta que comprende hilo de fibras formadoras de gel como se reclama en la reivindicación 1, el proceso comprende los pasos de:	Proceso para rigidizar un tejido textil durante la costura, bordado operaciones de costura u otro caracterizan por (Reivindicación 1).	Un procedimiento para la producción de fibra de carboximetil celulosa (Reivindicación 6).
(i) bordar una estructura abierta que tiene un tamaño de poro o malla entre 5 mm ² a 5,0 mm ² en un hilo de textil en una película de soporte soluble;	La impregnación de la tela por lo menos en las zonas que se somete a la operación de costura con una solución acuosa que comprende alcohol de polivinilo como agente de refuerzo, permitir que el tejido impregnado se seque y otorgue el refuerzo de ese modo, tejer con aguja, bordar o coser sobre las zonas impregnadas (Reivindicación 1). las soluciones de alcohol polivinílico en la mayoría de los casos, sin embargo, comprendidas ingredientes adicionales como almidones, almidones modificados, poliglicerol, óxidos de amina, materiales cerosos o agentes tensioactivos de tipo óxido de alquileno. Además tamaños se utilizan para mejorar la lubricación de los hilos durante la manipulación de los mismos (Párr. 0008). No menciona que el tamaño de poro o malla esté entre 5 mm² a 5,0 mm²	No menciona
(ii) remover la película de soporte al disolverla; y	Lavado de la tela en la realización de la costura, bordado o cosido con el fin de eliminar al menos una porción de la solución de impregnación (Reivindicación 1).	No menciona
(iii) modificar químicamente la estructura del paso (i) para suministrar al gel propiedades formadoras de gel para formar la estructura abierta que comprende hilo de fibras formadoras de gel.	No menciona	por reacción de con un alcalí fuerte y un reagente monocloraacetico y sales de los mismos (Reivindicación 6).

El documento D7 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 7, porque divulga un procedimiento para rigidizar un tejido textil durante la costura, bordado o otras operaciones de costura se caracteriza por impregnación del tejido por lo menos en las zonas que se somete a la operación de costura con una solución acuosa que comprende alcohol de polivinilo como agente de refuerzo, permitiendo que el tejido impregnado se seque, de refuerzo de ese modo, tejido con aguja, bordar o coser sobre las zonas impregnadas y el lavado de la tela en la realización de la costura, bordado o cosido con el fin de eliminar al menos una porción de la solución de impregnación (D7: Párr. 0014).

La diferencia entre la invención definida en la reivindicación 7 y el procedimiento de D7, consiste en que este último no menciona que el método contenga el paso de modificación química por carboximetilación utilizando un fluido de reacción que comprende una solución de un álcali y monocloroacetato en un solvente orgánico, además de no mencionar que la estructura abierta tenga un tamaño de poro entre 5 mm^2 a $5,0\text{ mm}^2$.

El efecto técnico que se obtiene al realizar la modificación química por carboximetilación del hilo utilizando un fluido de reacción es suministrar propiedades formadoras de gel al hilo, por su parte al definir el tamaño de poro entre 5 mm^2 a $5,0\text{ mm}^2$ es permitir que el exudado fluya a través de la superficie, por su parte el efecto que.

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: “¿Como modificar el método de D6 con el fin de suministrar propiedades formadoras de gel al hilo y permitir que el exudado fluya a través de la superficie?”.

Sin embargo, ya era conocido en el estado de la técnica, la modificación química de un hilo, puesto que, en el documento D3 menciona un procedimiento para la producción de fibra de carboximetil celulosa por reacción de fibra de celulosa con un álcali fuerte y un reactivo de monocloroacetico y sales de los mismos (Reivindicación 6); el álcali y el reactivo monocloroacetico pueden aplicarse a partir de solución en una mezcla de agua y un disolvente orgánico polar, por ejemplo, el hidróxido de sodio se puede disolver en agua hasta un 35% en peso y el monocloroacetato de sodio disuelto en agua hasta un 45% en peso y las soluciones (Pág. 0006, líneas 17 a 25), con lo anterior se obtiene una fibra de carboximetil celulosa de mayor absorbencia y resistencia, libre de pegajosidad superficial (Pág. 0004, líneas 2 a 5), en donde la forma de las fibras carboximetiladas después del hinchamiento en agua o en un líquido acuoso, la absorbencia generalmente aumenta y tienden a formar un gel coherente en el que se pierde la identidad de las fibras individuales (Pág. 0013, líneas 17 a 23); por su parte respecto al tamaño del poro, es del conocimiento del técnico medianamente versado en la materia que en la formación de tejido materiales de implante textil y de la vascularización dependerá del tamaño y distribución de poros y fibras, un arreglo de poros de diferentes órdenes de magnitud, que van desde $1\mu\text{m}$ a $1000\mu\text{m}$ (0.78 mm^2) favorecerá el crecimiento interno del tejido y la formación de nuevos vasos sanguíneos y capilares, la tecnología de bordado permitió lograr una arquitectura textil dimensionalmente estructurado que combina los poros de la angiogénesis y elementos para la estimulación mecánica local dirigido (Pág. 0003, Párr. 0001) [8].

En consecuencia, la persona del oficio normalmente versada en la materia enfrentada al problema técnico de modificar el método de D6 con el fin de permitir que el exudado fluya a través de la superficie y suministrar propiedades formadoras de gel al hilo, estaría motivada a incluir la modificación química con una solución de álcali y un monocloroacetato en un solvente orgánico como es divulgado en D3, dentro de una estructura con una porosidad de 0.078 mm^2 como es conocido por el técnico medianamente versado en la materia en el procedimiento de D7, llegando así al objeto de la reivindicación 7, por lo cual se considera obvia.

8 TISSUPOR: Development of a structured wound dressing based on a textile composite functionalised by embroidery technology; Karamuk, E; 2001; En línea: http://www.tissupor.com/pdf/tissupor_ktl.pdf

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

- La reivindicación 8. el álcali y el reactivo monocloroacetico pueden aplicarse a partir de solución en una mezcla de agua y un disolvente orgánico polar, por ejemplo, el hidróxido de sodio se puede disolver en agua hasta un 35% en peso y el monocloroacetato de sodio disuelto en agua hasta un 45% en peso y las soluciones se pueden mezclar y diluirse en un alcohol tal como etanol o alcoholes metilados industriales para dar la concentración requerida de los reactivos en la mezcla de disolvente orgánico acuoso (Pág. 0006, líneas 17 a 25)
- La reivindicación 9. La fibra de carboximetil celulosa de acuerdo con cualquiera de las reivindicaciones 1 a 3, caracterizado en que tiene una tenacidad de 15 a 25 cN/tex (Reivindicación 4).

7. Conclusión

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

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D1	WO 98/46818	1	Novedad y nivel inventivo
D2	WO 2006/052839	6	Novedad y nivel inventivo
D3	WO 93/12275	7 a 9	Novedad y nivel inventivo
D6	US 795,112,4	1 a 6	Novedad y nivel inventivo
D7	EP 052,506,2	7	Novedad y nivel inventivo

8. Respuesta a los argumentos del señor solicitante

Al respecto del argumento de la solicitante, en la cual los términos “estructura abierta”, “un hilo”, “filamentos o fibras formadoras de gel”, “una red con hilo unido en intervalos”, “una fuente de vacío”, “una capa de sellado de vacío”, “fibras textiles”, “en una película de soporte soluble”, “al disolverla”, “modificar químicamente”, “un álcali”, desde el punto de vista del experto con habilidad en la materia en el campo de los vendajes para heridas y similares, ver la página 1 de la descripción, estas expresiones tienen un significado definido; esta Oficina considera que si bien son términos empleados, son generales y por tanto no especifican claramente la invención, puesto que, sugieren de forma imprecisa que la protección se extiende a otras posibles variaciones o modificaciones, por lo cual, no son patentables. Se sugiere especificar la invención con términos precisos.

Ahora bien, frente a que las reivindicaciones brindan información suficiente puesto que están soportadas en la descripción, es pertinente mencionar lo que el Tribunal de Justicia de la Comunidad Andina ha dicho sobre este tema, lo siguiente:

“[...] las reivindicaciones constituyen parte esencial de la respectiva solicitud, debido a que delimitan el campo de la patente y especifican la regla técnica que se desea patentar, razones por las cuales éstas deben ser suficientemente claras y concisas.

*Agrega la jurisprudencia del Tribunal que ‘Su fundamento radica pues en la descripción respectiva, de forma tal que el alcance de la reivindicación corresponda y se justifique con el contenido de aquella’. (Proceso 106-IP-2002, patente: BATERIA CON CONTROLADOR INCORPORADO, publicado en la Gaceta Oficial N° 892, de 31 de enero de 2003).***[1]**

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

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

Asimismo el conector lógico entre el preámbulo y la materia a proteger debe ser solo uno para especificar con claridad que se quiere proteger, al respecto en la reivindicación 1 persiste la objeción de tener más de un enlace gramatical al mencionar “que comprende”, por lo cual no permite distinguir claramente el objeto que se desea proteger.

Con respecto al argumento en el cual menciona que “D1 divulga un hilo con hebra interna que tiene fibras textiles y formadoras de gel que está tejido con una hebra de soporte sustancialmente libre de fibras formadoras de gel. D1 no sugiere usar un vendaje de heridas que comprende fibras formadoras de gel para terapia de heridas con vacío como se reclama ahora. Más aún, no hay enseñanza, sugerencia o divulgación respecto al tamaño de los poros como ahora se reclama. Por lo tanto, D1 no anticipa ni afecta el nivel inventivo de las reivindicaciones 1 y 4”, al respecto D1 menciona un vendaje para heridas que comprende desde 5% a 95% en peso de fibras formadoras de gel (...) de 5% a 95% en peso de fibras textiles (D1: Reivindicación 2), la cual menciona la misma estructura de la invención al referirse a que el vendaje contiene hilos que comprenden fibras formadoras de gel y fibras textiles, indicando que aunque es la misma estructura abierta no especifica el tamaño del poro, lo cual es importante puesto que se evalúa que tan obvio fue llegar a este intervalo, como se demostró en el presente examen.

En relación con los argumentos de la solicitante en relación a la novedad en donde menciona que “Las reivindicaciones 1 y 7 se corrigen para mencionar un ‘vendaje de heridas al vacío’ para uso en terapia de heridas al vacío que comprende un hilo de filamentos o fibras formadoras de gel, la estructura “tiene un tamaño de poro o de malla de entre 0,5 mm² a 5,0 mm²”, cabe aclarar que hay una restricción nueva en el intervalo del tamaño de poro, por lo anterior, se hace necesario evaluar los posibles efectos técnicos que se puedan tener con estas características, es así que esta Oficina aclara que se hace necesario realizar un nuevo estudio de patentabilidad que tenga en cuenta los cambios realizados y las explicaciones dadas por la solicitante.

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

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

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



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

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

Elaboró: Lady Paola Cortes

Revisó: Olga Ximena Benavides Salazar

Lady Cortes

Search history

Search 1: PN=(WO2013079949) (Results 1)

Search 2: PN=(WO2013079949) (Results 1)

Search 3: PN=(WO2013079947) (Results 1)

Search 4: [SP]: 1. a wound dressing for use in vacuum wound therapy comprising a wound contact layer which is an open structure comprising a yarn comprising gel-forming filaments or fibres, the structure having a porosity which allows exudate to flow through it. 2. a wound dressing as claimed in claim 1 wherein the open structure has a pore or mesh size between 0.5 mm² to 5.0 mm². 3. a wound dressing as claimed in claim 1 or claim 2 wherein the pore or mesh size of the open structure is between 3.0 mm² to 4.0 mm². 4. a wound dressing as claimed in any preceding claim wherein the yarn has a linear density of 20 tex to 40 tex. 5. a wound dressing as claimed in any preceding claim wherein the open structure is knitted with a pore or mesh size between 0.5 mm² to 5.0 mm². 6. a wound dressing as claimed in claims 1 to 4 wherein the dressing is in the form of a net with yarn joined at intervals to form a set of meshes where the pore or mesh size is between 0.5 mm² to 5.0 mm². 7. a device for vacuum wound therapy comprising: a wound dressing which is an open structure comprising a yarn of gel-forming filaments or fibres, the structure having a porosity which allows exudate to flow through it a source of vacuum situated to be separated from the wound bed by the wound dressing and a vacuum sealing layer covering the wound dressing and adapted to retain relative vacuum in the wound contact layer. 8. a device as claimed in claim 7 wherein the dressing is an open structure having a pore or mesh size between 0.5 mm² to 5.0 mm². 9. a process for making a yarn comprising gel-forming fibres comprising the steps of: (i) blending staple gel-forming fibres optionally with textile fibres (ii) carding to form a continuous web (iii) drawing the web to produce a sliver and (iv) rotor spinning to produce a yarn. 10. a process as claimed in claim 9 wherein from 30 percent to 100 percent by weight of gel-forming fibres are blended with from 0 percent to 70 percent by weight textile fibres. 11. a process as claimed in claim 9 wherein from 50 percent to 100 percent by weight of gel forming fibres are blended with from 0 percent to 50 percent of textile fibres. 12. a process as claimed in claim 9 wherein the fibres have a staple length of 30 to 60 mm 13. a process for making an open structure or net comprising a yarn of gel-forming fibres comprising the steps of: (i) embroidering an open structure in a textile yarn on a soluble support film (ii) removing the support film by dissolving it and (iii) chemically modifying the structure to give the yarn gel-forming properties to form a structure comprising a yarn of gel forming fibres. 14. a process for making a yarn comprising gel-forming fibres comprising the steps of: (i) obtaining cellulosic staple fibres or filament (ii) spinning or twisting the cellulosic fibres or filament to form a yarn (iii) chemically modifying the yarn to give the yarn gel-forming properties. 15. a process as claimed in claim 13 or 14 wherein the chemical modification is carboxymethylation using a reaction fluid of a solution of an alkali and sodium monochloroacetate in industrial denatured alcohol. 16. a yarn made according to the process of claim 13 or claim 14 wherein the tensile strength of the yarn is at least 10 cn/tex. 17. a yarn comprising a blend of from 30 percent to 100 percent by weight of gel-forming fibres and 0 percent to 70 percent by weight textile fibres. 18. a yarn as claimed in claim 17 wherein the tensile strength of the yarn is at least 10 cn/tex. (Results 381)

Search 5: TAC=(vacuum) (Results 100000)

Search 6: TAC=(4 and 5) (Results 38)

Title: Method of manufacturing cellulose derivative

Abstract: Source: US4256877A An absorbent cellulose material is disclosed which comprises a substituted cellulose having an average degree of substitution sufficiently low to render the material insoluble and in which the fibers have an increased surface area formed by bursting the fibers during drying. In addition, a method of manufacturing such absorbent material is also disclosed which comprises providing an insoluble substituted cellulose material having an average degree of substitution sufficiently low to render the material insoluble, swelling the material to its maximum swelled state, fixing the material in that state, and drying the material while maintaining the material in its swelled state to thereby prevent shrinkage of the material during drying and to cause the fibers to burst during drying.

PatBase - US4256877_A



Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/53 A61L15/28 A61L15/60 C08B11/20 C08B3/22 C08L1/00 D01G9/00 (Advanced/Invention);

A61F13/15 A61L15/16 C08B11/00 C08B3/00 C08L1/00 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F13/18 A61F5/44 A61L15/00 B01J20/22 B01J20/28 C08B1/00 C08B11/20 C08B3/22 C08B5/00 C08B5/14 C08J C08L1/08 D01D11/00 D01G9/00 D02J3/00 D04H1/00 D04H1/06 D04H1/56 D06B15/00 D06M1/00 D06M1/24 D21F11/14 D21H5/14 D21J3/12 F26B5/00

CPC: C08B11/20 A61L15/28 C08B3/22

European: A61L15/28 C08B11/20 C08B3/22

US: 162/111 536/59 536/62 536/87 604/368 604/376

Family:

Publication number	Publication date	Application number	Application date
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AT908177 A	19811115	AT19770009081	19771219
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DE2757096 C2	19820729	DE19772757096	19771221
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FI68410 C	19850910	FI19770003861	19771220
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FR2375362 B1	19800822	FR19770038593	19771221
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IE46213 B	19830406	IE19770002525	19771213
IE46213 L	19780621	IE19770002525	19771213
IT1093078 A	19850719	IT19770052298	19771220
JP1152846 C3	19830630	JP19770153508	19771220
JP53084050 A2	19780725	JP19770153508	19771220
JP57045179 B4	19820927	JP19770153508	19771220
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NO149972 C	19840725	NO19770004387	19771220
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SE430609 B	19831128	SE19760014342	19761221
SE430609 C	19840308	SE19760014342	19761221
SE7614342 A	19780622	SE19760014342	19761221
SE7614342 L	19780622	SE19760014342	19761221
US4256877 A	19810317	US19770860250	19771213
YU302577 A	19830121	YU19770003025	19771220

Priority:

SE19760014342 19761221 CA19770293434 19771220

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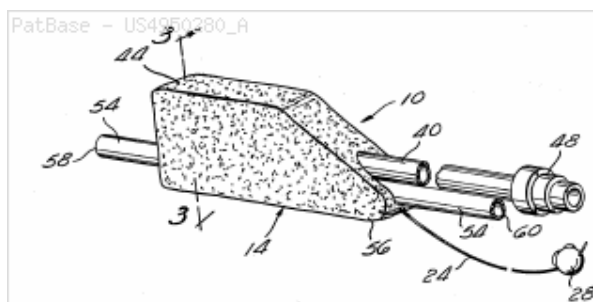
Inventor(s): (std): ARUFU HIYUUGO KAARUSON ; KARLSSON A H ; KARLSSON ALF H ; KARLSSON ALF HUGO ; LUNDSTROEM H E ; LUNDSTROEM HANS E ; LUNDSTROEM HANS EINAR ; HANSU EINAA RANDOSUTORIYOOMU ; LUNDSTROM H E ; LUNDSTROM HANS EINAR ; OLSON L H ; OLSSON L H ; OLSSON LARS HENRIK ; RARUSU HENRIKU UURUSON

Inventor(s): OLSSON LARS HENRIK NJURUNDA SE ; LUNDSTROM HANS E ; HUGO KARLSSON ALF ; LUNDSTROEM HANS EINAR ALNOE SE ; KARLSSON ALF HUGO NJURUNDA SE ; L H OLSSON ; LARS HENRIK OLSSON ; EINAR LUNDSTROEM HANS ; H E LUNDSTROM ; HANS EINAR LUNDSTROEM ; HANS EINAR LUNDSTROM ; 1 A H KARLSSON ; 2 H E LUNDSTROM ; 3 L H OLSSON ; A H KARLSSON ; ALF HUGO KARLSSON

Agent(s): FETHERSTONHAUGH AND CO

Title: Nasal tampon having a counter weight

Abstract: Source: US4950280A An improved nasal tampon for controlling and arresting hemorrhaging comprises an absorptive member, shaped to fit the gross contours of the nasal fossa, which is easily inserted in and removable from the nasal cavity. Affixed to one end of the tampon is a length of cord, having a weighted member appended thereto. The weighted member serves as a counter balance to aid in maintaining the tampon in place so as not to interfere with normal respiration through the mouth. In an alternative embodiment, the tampon is equipped with a drainage conduit, connected to a source of suction, so as to aspirate blood from the nasal cavity. In a further alternative embodiment, a breathing conduit is provided to enable the patient to breathe through the nose when the device is operatively inserted.



Classifications:

International (IPC 8-9): A61B17/12 (Advanced/Invention);

A61F13/20 (Advanced/Non-invention)

International (IPC 1-7): A61M31/00

CPC: A61B17/12022 A61B17/12104 A61B17/1219 A61B17/24 A61F13/2005

European: A61B17/12P A61B17/12P5A A61B17/12P7Z3 K61B17/24 K61F13/20A1

US: 604/1 604/363 604/907 606/196 D24/124

Family:

Publication number	Publication date	Application number	Application date
US4950280 A	19900821	US19880227505	19880802

Priority:

US19880227505 19880802

Probable Assignee: BRENNAN H GEORGE

Assignee(s): (std): BRENNAN H GEORGE

Inventor(s): (std): BRENNAN H GEORGE

Title: HYDROGEL WOUND DRESSING PRODUCT**Abstract:**

Source: US5059424A A wound dressing product is described which includes a flexible backing member that can be **vacuum** formed to include a depression. A pressure-sensitive adhesive layer extends across the depression side of the flexible backing member. A hydrogel material is positioned in the depression of the flexible backing member and a release liner extends over the exposed pressure-sensitive adhesive layer and the exposed hydrogel material, which release liner has a selective releasability whereby it can be removed from the wound dressing product intact, leaving a portion of the pressure-sensitive adhesive and the hydrogel material exposed.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61F13/15 A61K31/047 A61K31/13 A61K31/785 A61L15/16 A61L15/20 A61L15/26 A61L15/60 A61L26/00 A61P17/00 C08G18/00 C08G18/10 C08G18/50 C08G18/73 C08G18/75 (Advanced/Invention);

A61F13/00 A61F13/15 A61K31/13 A61L15/16 A61P17/00 C08G18/00 (Advanced/Non-invention)

International (IPC 1-7): A61F13/00 A61F13/02 A61K31/13 A61K31/785 A61L15/16 A61L15/20 A61L15/26 A61L15/60 A61L25/00 B32B1/06 B32B27/06 B32B3/26 C08G18/75

CPC: A61F13/0203 A61F13/023

A61F2013/00748 A61F2013/00851

A61F2013/00868 A61F2013/00885

A61F2013/15926 A61L15/26 A61L15/60

A61L26/0019 A61L26/008 C08G18/10

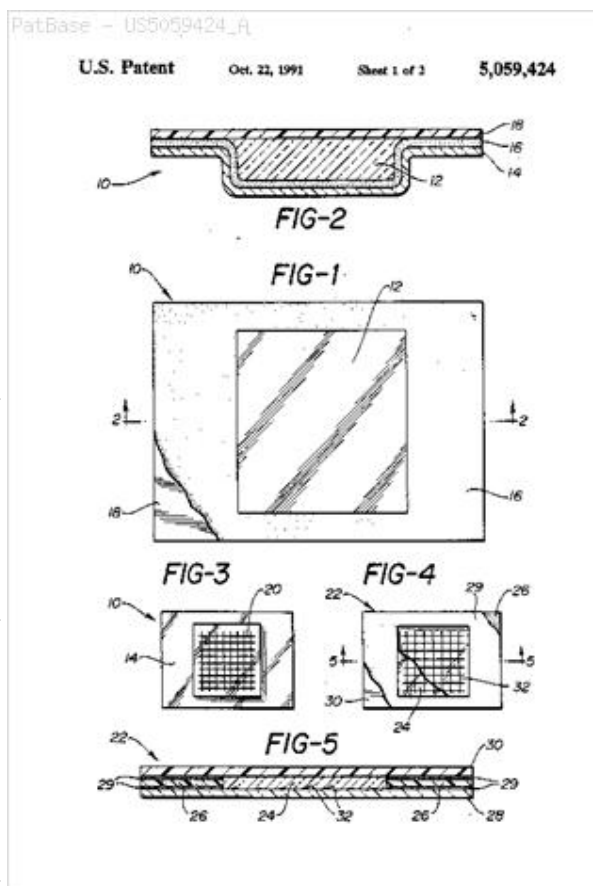
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US: 424/443 424/448 424/449 514/772 524/310 602/57

**Family:**

Publication number	Publication date	Application number	Application date
AT114975 E	19941215	AT19900311859T	19901030
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AU627942 B2	19920903	AU19900064911	19901023
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CA2028528 C	20011016	CA19902028528	19901025
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DE69014835 T2	19950504	DE19906014835T	19901030
DK0426422 T3	19950213	DK19900311859T	19901030
EP0426422 A2	19910508	EP19900311859	19901030
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ES2064662 T3	19950201	ES19900311859T	19901030
JP2129721 C3	19970523	JP19900297036	19901101
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NZ235814 A	19930127	NZ19900235814	19901024
US5059424 A	19911022	US19890430188	19891101
US5112618 A	19920512	US19910712342	19910607

ZA9008655 A

19910828

ZA19900008655

19901029

Priority:

US19890430188 19891101

CA19902028528 19901025

US19910712342 19910607

Probable Assignee: CONMED CORP

Assignee(s): (std): NDM ACQUISITION CORP ; HARTMANN PAUL AG

Assignee(s): CHASE MANHATTAN BANK ADMINISTRATIVE AGENT AS ; NDM ACQUISITION A
CORP OF MN CORP ; NDM ACQUISITION CORP MINNEAPOLIS MINN US ; NEW
DIMENSIONS IN MEDICINE INC ; PAUL HARTMANN AG ; STURTEVANT WAYNE R
; VALADEZ MANUEL ; WOLF MICHAEL L ; CHASE MANHATTAN BANK AS
ADMINISTRATIVE AGENT ; CONMED CORP ; NDM INC ; N D M AKUUIJISHIYON
CORP ; ENU DEII EMU AKUIJISHON CORP ; BANK ONE DAYTON NATIONAL
ASSOCIATION ; BAXTER INT ; BAXTER INT INC ; BAXTER INT INC A CORP OF
DE ; CARTMELL JAMES V

Inventor(s): (std): CARTMELL JAMES V ; JAMES V CARTMELL ; JIEEMUZU BUI KAATOMERU ;
STURTEVANT WAYNE R ; UEIN AARU SUTAATEBUANTO ; VALADEZ MANUEL ;
WAYNE R STURTEVANT ; WOLF MICHAEL L

Inventor(s): VALADEZ MANUEL J ; UEIN AARU SUTAATEUANTO ; STURTEVANT WAYNE R
CENTREVILLE OHIO 45458 US ; JEEMUZU BUI KAATOMERU ; CARTMELL JAMES
V CENTREVILLE OHIO 45458 US

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP

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

Title: Device for removing diverticula in the colon

Abstract:

Source: US5100419A The present invention is a medical device for inverting diverticulum and closing such diverticulum in the inverted position. The apparatus includes a reciprocating **vacuum** tube for inverting the diverticulum and a caliper for placing a fastening device such as an elastic band around the base of the diverticulum.

Classifications:

International (IPC 8-9): A61B17/00

A61B17/12 (Advanced/Invention);

A61B17/30 (Advanced/Non-invention)

International (IPC 1-7): A61B17/12

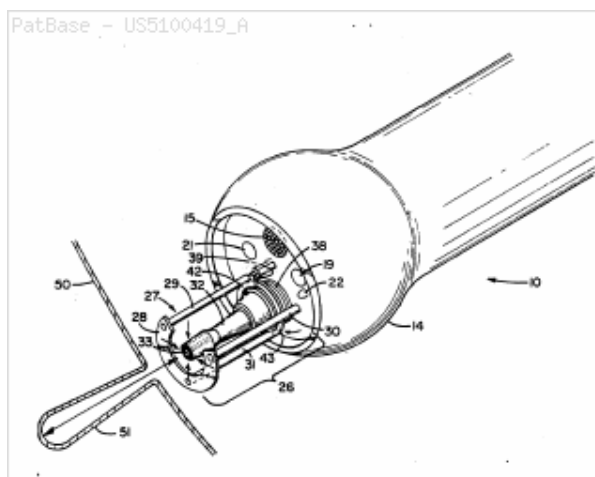
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European: A61B17/00P A61B17/12L

K61B17/12L4 K61B17/30S

US: 128/898 606/140



Family:

Publication number	Publication date	Application number	Application date
US5100419 A	19920331	US19900611439	19901113
US5224497 A	19930706	US19920820552	19920114

Priority:

US19880215868 19880706 US19900512546 19900417 US19920820552 19920114
 US19900611439 19901113

Probable Assignee: EHLERS ROBERT L

Assignee(s): (std): EHLERS ROBERT L

Inventor(s): (std): EHLERS ROBERT L

Title: HEMOSTATIC WOUND DRESSING AND METHOD OF MAKING SAME

Abstract: Source: US2004001879A The present invention is directed to wound dressings that contain a fabric made from biocompatible polymeric fibers and having flexibility, strength and porosity effective for use as a hemostat, and a porous, polymeric matrix prepared from a biocompatible, water-soluble or water-swellaable polymer dispersed through the fabric; and to methods of making such wound dressings.

Classifications:

International (IPC 8-9): A61B17/12

A61F13/00 A61F13/02 A61K31/715 A61K31/717

A61K38/37 A61K38/38 A61K38/46 A61K38/48

A61L15/00 A61L15/16 A61L15/22 A61L15/24

A61L15/26 A61L15/28 A61L15/32 A61L15/42

A61L15/44 A61L15/62 A61L15/64 A61L27/20

C08L1/04 C08L1/28 (Advanced/Invention);

A61L15/28 C08L1/16 C08L1/28

C08L5/08 (Advanced/Non-invention);

A61B17/12 A61F13/00 A61F13/02 A61L15/00

A61L15/16 A61L27/00

C08L1/00 (Core/Invention);

C08L5/00 (Core/Non-invention)

International (IPC 1-7): A61B17/12

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A61K31/716 A61K31/727 A61K31/728

A61K31/737 A61K38/00 A61K48/00 A61K9/70

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A61L15/26 A61L15/28 A61L15/32 A61L15/42

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D06M15/00 D06M15/15 D06M23/10

CPC: A61K31/715 A61K31/717 A61K38/11

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European: A61K31/715 A61K31/717 A61K38/11 A61K38/36A A61K38/38 A61K38/39

A61K38/48K21 A61K38/48K5 A61L15/28 A61L15/32 A61L15/42E A61L15/44 A61L15/64 A61L27/20

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M08L5/08 N10B509/022 N10B509/08

US: 424/443 424/445 424/445P 424/445S 424/446 424/447 424/94.62 424/94.620S 424/94.64

424/94.640S 442/123 442/123P 442/123S 514/1.3 514/1.300S 514/10.9 514/10.900S 514/12

514/13.6 514/13.600S 514/13.7 514/13.700S 514/14.3 514/14.300S 514/14.4 514/14.400S

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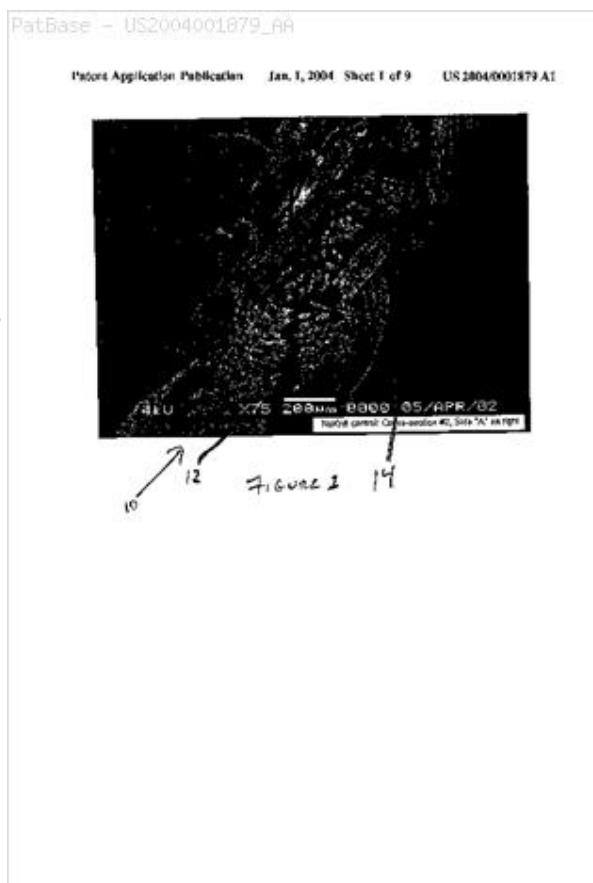
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Family:

Publication number	Publication date	Application number	Application date
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US2006159733 AA	20060720	US20060360864	20060223
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Priority:

US20020186021 20020628	US20020304781 20021126	US20020323244 20021220
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Probable Assignee: ETHICON INC

Assignee(s): (std): GUO JIAN XIN ; LOONEY DWAYNE LEE ; GORMAN ANNE JESSICA ; PENDHARKAR SANYOG MANOHAR ; JOHNSON AND JOHNSON ; PENDHARKAR SANYOG M ; GORMAN ANNE J ; ZHANG GUANGHUI ; ETHICON INC

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Inventor(s): (std): ZHANG GUANG HUI ; ZHANG GUANGHUI ; LOONEY DWAYNE LEE ; GUO JIAN XIN ; GORMAN ANNE JESSICA ; ZHANG G ; RONY D L ; PONHACARD S M ; GUO J X ; WK WISSING ; WISSING WILLIAM K ; WISSING W K ; WILLIAM K WISSING ; THOMAS LEE CRAVEN ; SM PONHACARD ; SM PENDHARKAR ; SANYOG MANOHAR PENDHARKAR ; RONG D L ; PENDHARKER SANYOG MANOHAR ; PENDHARKAR S M ; MICHELLE BERMEL ; JX GUO ; JIAN XIN GUO ; GORMAN A J ; G ZHANG ; DWAYNE LEE LOONEY ; DL RONY ; DL RONG ; ANNE JESSICA GORMAN ; AJ GORMAN ; PENDHARKAR SANYOG MANOHAR ; PENDHARKAR SANYOG M ; LEE LOONEY DWAYNE ; GUANGHUI ZHANG ; GORMAN ANNE J ; BERMEL MICHELLE ; CRAVEN THOMAS LEE ; GORMAN ANN JESSICA ; PENDKARKAR SANYOG MANOHAR

Inventor(s): GORMAN ANNE ; J X GUO ; PENDHARKAR SANYOG ; S M PONHACARD ; D L RONY ; D L RONG ; A J GORMAN ; SANYOG MANOHAR PENDKARKAR ; W K

WISSING ; S M PENDHARKAR

Agent(s):

FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; CALLINANS; FISHER ADAMS KELLY CALLINANS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MERCER CHRISTOPHER PAUL; PHILIP S JOHNSON JOHNSON AND JOHNSON

Designated states:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

Title: REDUCED PRESSURE TREATMENT SYSTEM**Abstract:**

Source: US2004073151A A wound treatment apparatus is provided for treating tissue damage, which comprises a fluid impermeable wound cover sealed over a site for purposes of applying a reduced pressure to the site. The apparatus also includes a cover with protrusions on its surface for purposes of monitoring pressure at the site. An absorbable matrix may be placed in the site of a wound to encourage tissue growth into the matrix. Temperature of the site may be monitored using a layer of temperature sensitive material and temperature sensors connected to an alarm and recording device. A vacuum pump supplies suction within the wound cover over the treatment site. A portable version of the wound treatment apparatus is also provided. Finally, a method for treating wounds using reduced pressure is provided.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61F15/00 A61M1/00

A61M27/00 (Advanced/Invention);
A61M1/00 (Advanced/Non-invention);
A61F15/00 (Core/Invention);
A61M1/00 (Core/Non-invention)

International (IPC 1-7): A61F13/00

CPC: A61M1/0088 A61F13/00068
A61F13/00059 A61F13/0216 A61F15/008
A61F2013/00153 A61F2013/0028
A61M2205/3344

European: A61F15/00P A61M1/00T6

US: 602/41 602/41P 602/53 604/304 604/313
604/313P 604/315 604/318 604/318P 604/318S
604/319 604/319P 604/319S 604/320 604/320P
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604/60S

PatBase - US2004073151_AA

Patent Application Publication Apr. 15, 2004 Sheet 1 of 7 US 2004/0073151 A1

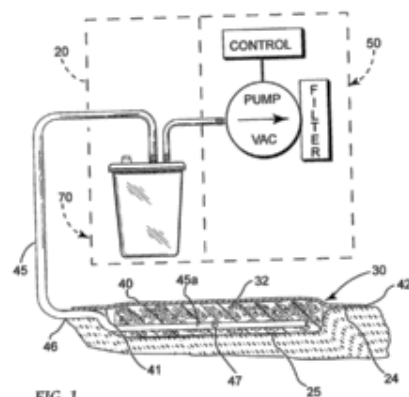


FIG. 1

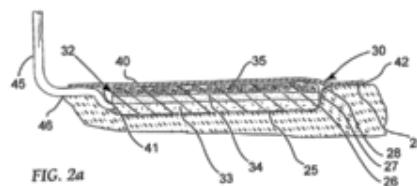


FIG. 2a

Family:

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US2011077604 AA	20110331	US20100961295	20101206
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US2012209224 AA	20120816	US20120453610	20120423
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Priority:

US20020407783P 20020903	US20020430827P 20021204	US20030652100 20030828
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Probable Assignee: BLUESKY MEDICAL GROUP INC

Assignee(s): (std): BLUESKY MEDICAL GROUP INC ; WESTON RICHARD SCOTT
Assignee(s): HUNTLEIGH HEALTHCARE FUNDING LLC ; JOHNSON TIM
Inventor(s): (std): WESTON RICHARD SCOTT
Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

Title: APPARATUS FOR ASPIRATING, IRRIGATING AND CLEANSING WOUNDS

Abstract: Source: US2006155260A An apparatus for cleansing wounds in which irrigant fluid from a reservoir (12) connected to a conformable wound dressing (3) and wound exudate from the dressing are recirculated by a device (18) for moving fluid through a flow path which passes through the dressing and a means (17) for fluid cleansing and back to the dressing. The cleansing means (which may be a single-phase, e.g. microfiltration, system or a two-phase, e.g. dialytic system) removes materials deleterious to wound healing, and the cleansed fluid, still containing materials that are beneficial in promoting wound healing, is returned to the wound bed. The dressing and a method of treatment using the apparatus.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61F13/512 A61M1/00 A61M27/00 A61M3/00 A61M3/02 A61M35/00 (Advanced/Invention); A61F13/00 A61M1/00 A61M27/00 (Advanced/Non-invention); A61F13/00 A61F13/02 A61M1/00 A61M27/00 A61M3/00 (Core/Invention)

International (IPC 1-7): A61M1/00 A61M27/00

CPC: A61F2013/0221 A61F13/00063

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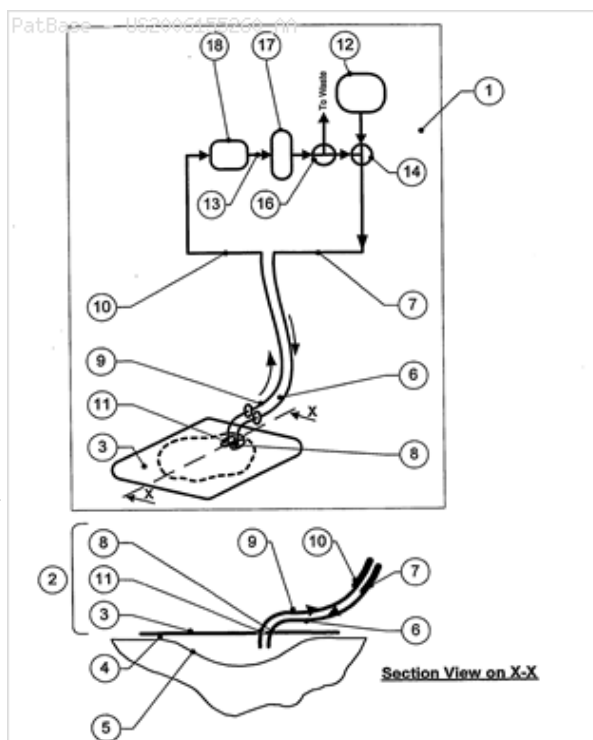
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K61F13/00J8A K61F13/00L12E K61F13/00L1T K61F13/00L1V

US: 604/27 604/28 604/290 604/290P 604/30 604/304 604/304S 604/305 604/305S 604/308 604/317 604/319 604/319P 604/543 604/543P

**Family:**

Publication number	Publication date	Application number	Application date
AT450289 E	20091215	AT20030809377T	20031028
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EP1562668 A1	20050817	EP20030809377	20031028
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EP2902068 A1	20150805	EP20150152570	20031028
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ES2368182 T3	20111115	ES20080014124T	20031028
GB200224986 A0	20021204	GB20020024986	20021028
JP2006503628 T2	20060202	JP20040546200T	20031028
JP4414338 B2	20100210	JP20040546200T	20031028
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US2006155260 AA	20060713	US20030533275	20031028
US2009254054 AA	20091008	US20090416829	20090401
US2011087176 AB	20110414	US20090416829	20090401
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US2012130325 AA	20120524	US20120363320	20120131
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US2015080787 AA	20150319	US20140485633	20140912
US2015173954 AA	20150625	US20140585786	20141230
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US7524315 BB	20090428	US20030533275	20031028
US8398614 BB	20130319	US20090416829	20090401
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US8834451 BB	20140916	US20120363320	20120131
US9205001 BB	20151208	US20140485633	20140912
WO04037334 A1	20040506	WO2003GB04647	20031028
ZA200502973 A	20060222	ZA20050002973	20050413

Priority:

GB20020024986	20021028	EP20030809377	20031028	AU20030276408	20031028
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US20030533275	20031028	EP20100010687	20031028	US20120627473	20120926
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Probable Assignee: SMITH AND NEPHEW PLC

Assignee(s): (std): BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; GREENER BRYAN ; HARTWELL EDWARD Y ; HARTWELL EDWARD YERBURY ; LEE WEBB JULIAN ; NICOLINI DEREK ; SMITH AND NEPHEW ; WALKER TINA MICHELLE ; WALKER TINA M

Assignee(s): SMITH AND NEPHEW PLC ; SMITH AND NEPHEW PUBLIC LIMITED COMPANY

Inventor(s): (std): GREENER BRYAN ; HARTWELL EDWARD ; HARTWELL EDWARD Y ; HARTWELL EDWARD YERBURY ; LEE WEBB JULIAN ; LEWIS BLOTT PATRICK ; MICHELLE BLOTT PATRICK LEWIS G ; MICHELLE WALKER TINA ; NICOLINI DEREK ; BLOTT PATRICK ; BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; WALKER TINA ; WALKER TINA M ; WALKER TINA MICHELLE ; BRYAN GREENER ; YERBURY HARTWELL EDWARD

Inventor(s): EDWARD YERBURY HARTWELL ; WALKER TINA MICHELLE C O SMITH AND NEPHEW PLC ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL EDWARDY ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL EDWARDYERBURY WALKER TINA MICHELLE ; PATRICK LEWIS BLOTT ; TINA MICHELLE WALKER

Agent(s): DAVIES COLLISON CAVE; GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; CONNORS MARTIN L H; ADCOCKS CLAIR; BOAKES JASON CARRINGTON; SMITH AND NEPHEW; CHIEF PATENT COUNSEL SMITH AND NEPHEW INC; KNOBBE MARTENS OLSON AND BEAR LLP

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

Title: WOUND DRESSING

Abstract: Source: US2004126413A A wound dressing including an absorbent core defining opposed proximal and distal surfaces. A perforated skin adherent facing layer is secured to a proximal surface of the absorbent core and a liquid impervious, vapor permeable backing layer is connected to a distal surface of the absorbent core. The backing layer defines at least one compliant element disassociated from the distal surface of the absorbent core and including at least one ridge extending outwardly relative to the distal surface of the absorbent core.

Classifications:

International (IPC 8-9): A61B17/06

A61B19/02 A61F13/00 A61F13/02 A61F13/15

A61F13/20 A61F13/53 A61F15/00 A61F2/00

A61K9/70 A61L15/00 A61L15/16 A61L15/22

A61L15/26 A61L15/34 A61L15/42 A61L15/44

A61L15/58 A61L15/60 B32B5/24

B32B5/32 (Advanced/Invention);

A61F13/00 (Advanced/Non-invention);

A61K9/70 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F15/00

A61F7/00 A61K9/70 A61L15/00

CPC: A61F13/0203 A61F13/0276

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A61F2013/00604 A61F2013/00748 A61F2013/00804 A61F2013/00885

European: A61F13/02 A61F13/02B A61F13/02M A61L15/26 A61L15/34 A61L15/42E A61L15/58

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K61F13/00L7A1 K61F13/00L9

US: 128/888 206/440 424/443 424/445 424/445P 602/41 602/41P 602/42 602/42P 602/43

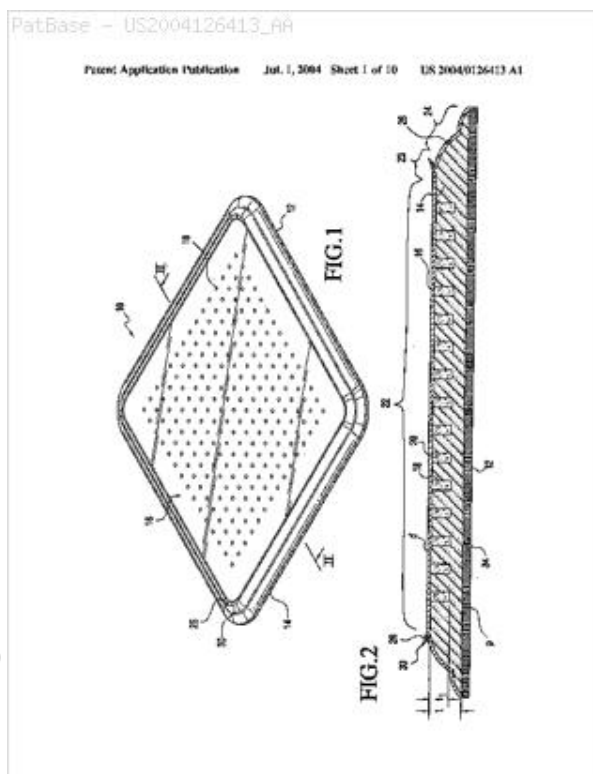
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Family:

Publication number	Publication date	Application number	Application date
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CN1852691 A	20061025	CN200480026892	20040825
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Priority:

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Probable Assignee: OSSUR HF

Assignee(s): (std): BSN MEDICAL CO LTD ; BSN MEDICAL GMBH ; ELEFSEN THORDUR M ; GUDNASON PALMAR I ; OSSUR HF ; OESSUR HF ; ELEFSEN THORDUR ; GUDNASON PALMAR ; SIGURJONSSON GUDMUNDUR FERTRAM ; OSSUR NORTH AMERICA INC ; SIGURJONSSON GUDMUNDUR F

Assignee(s): OSUR HF ; ARION BANK HF ; BSN MEDICAL CO ; KAUPTHING BANK HF ; HF OSSUR

Inventor(s): (std): THORDUR M ELEFSEN ; SIGURJONSSON GUDMUNDUR F ; PALMAR I GUDNASON ; GUDNASON PALMAR ; GUDMUNDUR FERTRAM SIGURJONSSON ; FERTRAM SIGURJONSSON GUDMUNDUR ; ELEFSEN THORDUR ; GUDNASON PALMAR I ; ELEFSEN THORDUR M ; SIGURJONSSON GUDMUNDUR FERTRAM

Inventor(s): SIGURJONSSON GUDMUNDUR FERTRAM ELEFSEN THORDUR M ; SIGURJONSSON GUDMUNDUR FERTRAM ELEFSEN THORDUR M G ; SIGURJONSSON GUDMUNDUR

Agent(s): DAVIES COLLISON CAVE; RIDOUT AND MAYBEE LLP; ZIMMERMANN AND PARTNER PATENTANWALTE MBB; PIESOLD ALEXANDER JAMES; ZIMMERMANN AND PARTNER; CARPINTERO MARIO; BACON AND THOMAS PLLC

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

Title: WOUND CLEANSING APPARATUS WITH HEAT

Abstract: Source: US2007129707A An apparatus for cleansing and promoting tissue growth in wounds, in which irrigant fluid optionally containing cell nutrients and/or other physiologically active material from a reservoir connected to a conformable wound dressing and wound exudate from the dressing are recirculated by a device for moving fluid through a flow path which passes through the dressing, a biodegradable scaffold in contact with the wound bed and a means for fluid cleansing and back to the dressing. The apparatus has means for supplying thermal energy to the fluid in the wound. The cleansing means (which may be a single-phase, e.g. micro-filtration, system or a two-phase, e.g. dialytic system) removes materials deleterious to wound healing, and the cleansed fluid, still containing materials that are beneficial in promoting wound healing, is returned to the wound bed. The dressing and a method of treatment using the apparatus.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61F7/00 A61F7/08 A61H35/00 A61M1/00 A61M13/00 A61M27/00 A61M3/00 A61M3/02 (Advanced/Invention); A61F13/00 A61F7/00 A61M1/00 A61M25/16 A61M27/00 A61M3/02 A61M37/00 A61M5/00 (Advanced/Non-invention); A61F13/00 A61F7/00 A61F7/08 A61H35/00 A61M1/00 A61M27/00 A61M3/00 (Core/Invention); A61F13/00 (Core/Non-invention)

International (IPC 1-7): A61F13/00 A61F7/00 A61M1/00 A61M27/00 A61M3/02

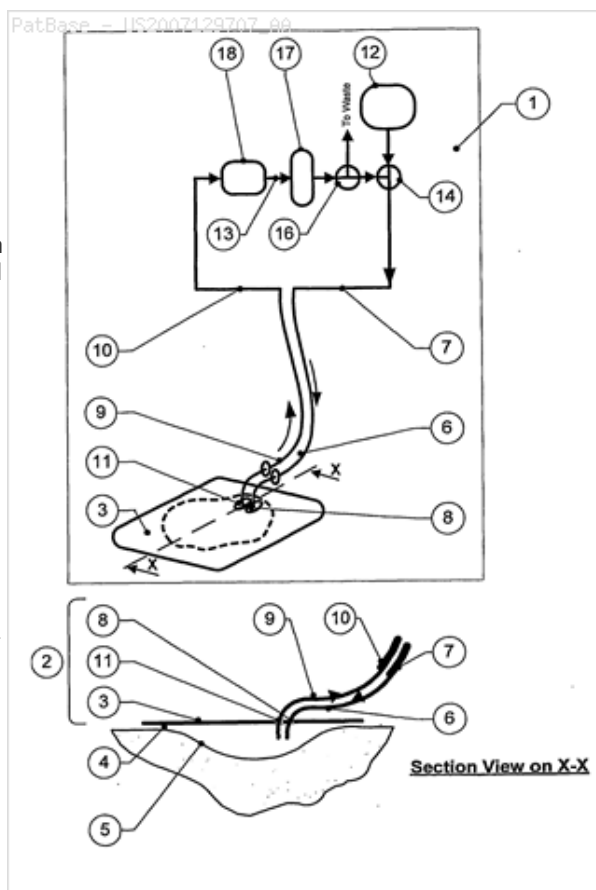
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European: A61M1/00K A61M1/00T2 A61M1/00T6 A61M3/02C K61F7/00D K61M205/36J K61M205/36R K61M27/00

US: 128/897 128/898 600/29 600/30 600/31 602/42 602/43 602/44 602/45 602/46 602/47 602/48 602/49 602/50 602/51 602/52 602/53 604/249 604/288.03 604/290 604/290P 604/291 604/291S 604/305 604/305S 604/306 604/307 604/308 604/308S 604/319 604/320 604/321 604/322 604/323 604/537 604/540 604/543 604/543P 604/544 604/8 604/9 623/23.64 623/23.65 623/23.68 623/23.7

Family:

Publication number	Publication date	Application number	Application date
AU2004289090 AA	20050526	AU20040289090	20041028
AU2004289090 BB	20100304	AU20040289090	20041028
CA2543933 AA	20060427	CA20042543933	20041028
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CN102793954 A	20121128	CN201210203579	20041028
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CN1874800 A	20061206	CN200480032068	20041028
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EP1677854 A1	20060712	EP20040791602	20041028
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ES2460365 T3	20140513	ES20040791602T	20041028
GB200325126 A0	20031203	GB20030025126	20031028



JP2007509681 T2	20070419	JP20060537418T	20041028
JP4611312 B2	20110112	JP20060537418T	20041028
KR20060113675 A	20061102	KR20067008180	20060427
US2007129707 AA	20070607	US20040575875	20041028
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US2015174306 AA	20150625	US20140575794	20141218
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Priority:

GB20030025126 20031028 WO2004GB04564 20041028 US20070575875 20070201
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US20140575794 20141218

Probable Assignee: SMITH AND NEPHEW

Assignee(s): (std): BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; GREEN CLARE ; GREENER BRYAN ;
HARTWELL EDWARD YERBURY ; LEE WEBB JULIAN ; NICOLINI DEREK ; MARTIN
ROBIN PAUL ; HARTWELL EDWARD Y ; SMITH AND NEPHEW ; WALKER TINA
MICHELLE

Assignee(s): SMITH AND NEPHEW PUBLIC LIMITED COMPANY ; SMITH AND NEPHEW PLC

Inventor(s): (std): BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; BRYAN GREENER ; CLAR BLOTT
PATRICK LEWIS GREEN ; CLARE GREEN ; DEREK NICOLINI ; HARTWELL
EDWARD Y ; HARTWELL EDWARD YERBURY ; JULIAN LEE WEBB ; LEE WEBB
JULIAN ; LEWIS BLOTT PATRICK ; MARTIN ROBIN PAUL ; NICOLINI DEREK ;
GLARE GREEN ; GREEN CLARE ; GREEN GLARE ; GREENER BRYAN ; PAUL
MARTIN ROBIN ; WALKER TINA MICHELLE ; YERBURY HARTWELL EDWARD

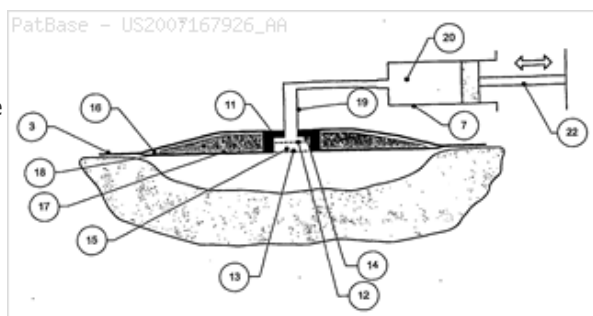
Inventor(s): ROBIN PAUL MARTIN ; HARTWELL EDWARD ; BLOTT PATRICK ; PATRICK LEWIS
BLOTT ; EDWARD YERBURY HARTWELL ; BLOTT PATRICK LEWIS GREENER
BRYAN HARTWELL ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL
EDWARDY ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL
EDWARDYERBURY LEE WEBB JULIAN NICOLINI DEREK GREEN CLARE MARTIN
ROBIN PAUL

Agent(s): GRIFFITH HACK; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP;
CONNORS MARTIN LH; DE ELZABURU ALBERTO; STITES AND HARBISON PLLC;
KNOBBE MARTENS OLSON AND BEAR LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM
CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN
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MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT
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VC VN YU ZA ZM ZW

Title: WOUND CLEANSING APPARATUS IN-SITU

Abstract: Source: US2007167926A An apparatus for cleansing wounds, in which irrigant fluid from a reservoir connected to a conformable wound dressing and wound exudate from the dressing are recirculated by a device for moving fluid through a flow path which passes through the dressing and a means for fluid cleansing and back to the dressing, and in which the cleansing means sits in the wound in use. The cleansing means (which may be a single-phase, e.g. micro-filtration, system or a two-phase, e.g. dialytic system) removes materials deleterious to wound healing, and the cleansed fluid, still containing materials that are beneficial in promoting wound healing, is returned to the wound bed. Also, the dressing and a method of treatment using the apparatus.

**Classifications:**

International (IPC 8-9): A61F1/00 A61F13/00 A61F13/02 A61F5/00 A61H33/00 A61M1/00

A61M27/00 A61M3/00 A61M3/02 A61M37/00 B23P17/04 (Advanced/Invention);

A61F13/00 A61M1/00 A61M27/00 A61M3/00 A61M3/02 A61M35/00 (Advanced/Non-invention);

A61F13/00 A61F13/02 A61H33/00 A61M1/00 A61M27/00 A61M3/00 (Core/Invention);

A61F13/00 A61M35/00 (Core/Non-invention);

A61F A61M (Subclass/Invention)

International (IPC 1-7): A61F13/00 A61M1/00 A61M27/00 A61M3/02

CPC: A61F13/00068 A61M35/00 A61M1/0037 A61M1/0058 A61M1/0062 A61M1/0084 A61M3/0229

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European: A61M1/00K A61M1/00T2 A61M1/00T6 A61M3/02C K61M1/00H4 K61M1/00K2

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K61M27/00 K61M35/00

US: 29/428 29/428S 602/313 602/317 602/41 604/304 604/304P 604/307 604/307S 604/313

604/313P 604/317 604/319 604/319P 604/319S

Family:

Publication number	Publication date	Application number	Application date
AU2004292383 AA	20050609	AU20040292383	20041028
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CA2540878 AA	20050609	CA20042540878	20041028
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CA2821842 AA	20050609	CA20042821842	20041028
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CN1874806 B	20100428	CN200480032101	20041028
DK1684826 T3	20140616	DK20040791592T	20041028
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EP1684826 B1	20140402	EP20040791592	20041028
EP1684826 B9	20141231	EP20040791592	20041028
EP2298381 A1	20110323	EP20100010689	20041028
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JP2007509680 T2	20070419	JP20060537411T	20041028
JP2010137084 A2	20100624	JP20100059188	20100316
JP2012196531 A2	20121018	JP20120158426	20120717

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JP5260588 B2	20130814	JP20100059188	20100316
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KR20110120955 A	20111104	KR20117021725	20041028
US2007167926 AA	20070719	US20040575871	20041028
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US2011054423 AA	20110303	US20100940788	20101105
US2011087179 AB	20110414	US20100848817	20100802
US2012041399 AA	20120216	US20110212039	20110817
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US2015165101 AA	20150618	US20140575968	20141218
US7829756 BB	20101109	US20040575871	20041028
US7964766 BB	20110621	US20040575871	20041028
US8080702 BB	20111220	US20100848817	20100802
US8569566 BB	20131029	US20110302980	20111122
WO05051461 A1	20050609	WO2004GB04549	20041028
ZA200602867 A	20070829	ZA20060002867	20060407

Priority:

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CA20042540878	20041028	WO2004GB04549	20041028	US20040575871	20041028
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Probable Assignee: SMITH AND NEPHEW

Assignee(s): (std): BLOTT PATRICK ; BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; GREENER BRYAN ; HARTWELL EDWARD ; HARTWELL EDWARD Y ; HARTWELL EDWARD YERBURY ; LEE WEBB JULIAN ; NICOLINI DEREK ; SMITH AND NEPHEW ; SMITH AND AMP NEPHEW PLC ; SMITH AND NEPHEW PCL ; WALKER TINA MICHELLE

Assignee(s): SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW PUBLIC LIMITED COMPANY ; SMITH AND NEPHEW PLC

Inventor(s): (std): BLOTT PATRICK ; BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; BRYAN GREENER ; DEREK BLOTT PATRICK LEWIS GREE ; DEREK NICOLINI ; GREENER BRYAN ; HARTWELL EDWARD ; HARTWELL EDWARD Y ; HARTWELL EDWARD YERBURY ; JULIAN LEE WEBB ; LEE WEBB JULIAN ; LEWIS BLOTT PATRICK ; MICHELLE TINA ; NICOLINI DEREK ; WALKER TINA MICHELLE ; YERBURY HARTWELL EDWARD

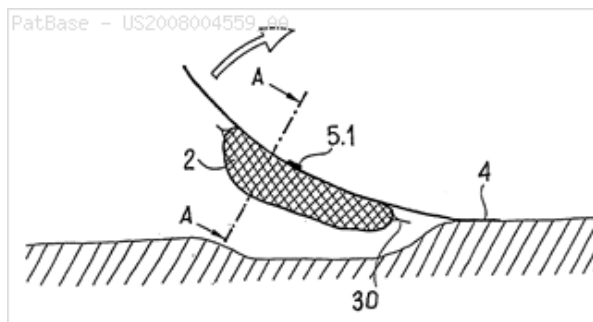
Inventor(s): PATRICK LEWIS BLOTT ; EDWARD YERBURY HARTWELL ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL EDWARDY ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL EDWARDYERBURY LEE WEBB JULIAN NICOLINI DEREK

Agent(s): GRIFFITH HACK; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; MCFADDEN FINCHAM INC; CONNORS MARTIN LH; SMITH AND NEPHEW; BOAKES JASON CARRINGTON; CURRAN CLAIR; DE ELZABURU ALBERTO; STITES AND HARBISON PLLC; KNOBBE MARTENS OLSON AND BEAR LLP

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

Title: MULTI-COMPONENT DRESSING FOR WOUND TREATMENT ON THE HUMAN OR ANIMAL BODY WITH APPLICATION OF REDUCED PRESSURE

Abstract: Source: US2008004559A The invention relates to a multi-component dressing (100) for treating wounds of the human or animal body using a reduced pressure, having a wound-covering element (4) for mounting the dressing (100) at the surface of the skin and the mucous membrane and at least one connecting site (5), which is in contact with the wound space (10) and over which the materials in the wound space (10) can be evacuated. The multi-component dressing has super-absorbing polymers, the absorbed wound secretions remaining bound to polymers in the wound space until the latter are removed from the wound space and the polymers, due to their binding capacity, supporting reciprocal synergies with the sub-atmospheric pressures. Wound exudate, promoted by the reduced pressure, is also stored and controlled by polymerized granulates.



Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61F13/40 A61F13/53 A61F5/00 A61M1/00 A61M1/08 A61M27/00 A61M35/00 (Advanced/Invention);
A61F13/00 A61F13/02 A61F13/40 A61F5/00 A61M1/08 (Core/Invention)

International (IPC 1-7): A61B17/03 A61F13/00 A61M1/00 A61M27/00

CPC: A61F13/0216 A61M1/0088 A61M1/0003 A61M1/0092 A61F13/00068 A61F13/00012 A61F13/00063 A61F13/0209 A61F13/025 A61F2013/00153 A61F2013/00174 A61F2013/00182 A61F2013/00536 A61F2013/0054 A61F2013/00561 A61F2013/00714 A61F2013/00846 A61F2013/00936

European: A61F13/00A2B A61F13/00B6 A61F13/00B8 A61F13/02B2B A61F13/02B6 A61F13/02D2 A61M1/00T6 A61M1/08 K61F13/00J5 K61F13/00J8A K61F13/00J9 K61F13/00L12F K61F13/00L1T K61F13/00L1V K61F13/00L2E5 K61F13/00L3P K61F13/00L9

US: 602/2 602/46 602/46P 602/48 604/289 604/290 604/304 604/305 604/305P 604/308 604/313 604/315 604/316 604/319 604/319P 604/372 604/372P 604/540 604/541 604/543

Family:

Publication number	Publication date	Application number	Application date
AT475391 E	20100815	AT20050801418T	20051102
AU2005300725 AA	20060511	AU20050300725	20051102
AU2005300725 BB	20120913	AU20050300725	20051102
AU2005300731 AA	20060511	AU20050300731	20051102
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CA2585716 AA	20070501	CA20052585716	20051102
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CN101052364 B	20100609	CN200580037556	20051102
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CN101052365 B	20100623	CN200580037639	20051102
DE202004017052 U1	20050609	DE200420017052U	20041102
DE202005021932 U1	20120119	DE200520021932U	20051102
DE502005010018 D1	20100909	DE200550010018T	20051102
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EP1807032 A1	20070718	EP20050810769	20051102
EP2781208 A1	20140924	EP20140173339	20051102
ES2348958 T3	20101217	ES20050801418T	20051102

US2008004559 AA	20080103	US20050666848	20051102
US2008009812 AA	20080110	US20050666958	20051102
US2011034894 AA	20110210	US20100856287	20100813
US2011313373 AA	20111222	US20110099410	20110503
US2012143157 AA	20120607	US20110315639	20111209
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US7959624 BB	20110614	US20050666958	20051102
WO06048240 A1	20060511	WO2005EP11692	20051102
WO06048246 A1	20060511	WO2005EP11701	20051102

Priority:

DE200420017052U	20041102	WO2005EP11692	20051102	US20070666848	20070705
WO2005EP11701	20051102	EP20050810769	20051102	DE200520021932U	20051102
US20100856287	20100813	US20070666958	20070705	US20110099410	20110503
US20110315639	20111209				

Probable Assignee: BSN MEDICAL GMBH

Assignee(s): (std): BSN MEDICAL GMBH ; RIESINGER BIRGIT ; BIRGIT RIESINGER ; BIRGIT RIESINGER

Assignee(s): BR ENTWICKLUNGS GMBH AND CO KG ; RIESINGER BIRGIT ; RIESINGER ; RIESINGER BIRGITZUM HOLTKAMP 848348OSTBEVERNDE

Inventor(s): (std): BIRGIT RIESINGER ; RIESINGER BIRGIT

Inventor(s): RIESINGER BIRGIT ; RIESINGER BIRGITZUM HOLTKAMP 848348OSTBEVERNDE ; BIRGIT RIESINGER

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FETHERSTONHAUGH AND CO; MICHALSKI HUETTERMANN AND PARTNER PATENTANWAELTE; STORZ ULRICH; MILDE AND HOFFBERG LLP; OCCHIUTI ROHLICEK AND TSAO LLP

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

Title: DRAINAGE DEVICE FOR THE TREATING WOUNDS USING A REDUCED PRESSURE

Abstract: Source: US2008119802A The invention relates to a drainage device (100) for the treatment of wounds using reduced pressure, comprising (a) a gas-type wound-covering element (3), which, in the state in contact with the body of the patient, is fastened cohesively at the skin surface around the region of the wound and forms a sealed wound space, remaining between the respective wound and the wound-covering element (3); (b) at least one drainage tube (4), which can be connected to means generating the reduced pressure and can be inserted into the wound space approximately parallel to the wound-covering element (3); and (c) at least one absorption body (2) in the form of at least one layer (7) of a textile section (33), which is interspersed with super-absorbing particles and enclosed in an envelope. Due to the size of the pores of the envelope, the absorbed wound secretions remain within the absorption body (2) and, with that, underneath the wound-covering element (3) until the absorption body is removed from the wound space. An air opening (34) is provided for the wound-covering element (3).

Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61M1/00 A61M27/00 (Advanced/Invention)

International (IPC 1-7): A61B17/03 A61F13/00 A61M1/00 A61M27/00

CPC: A61F13/00068 A61F2013/00174

A61F2013/00182 A61F2013/00255

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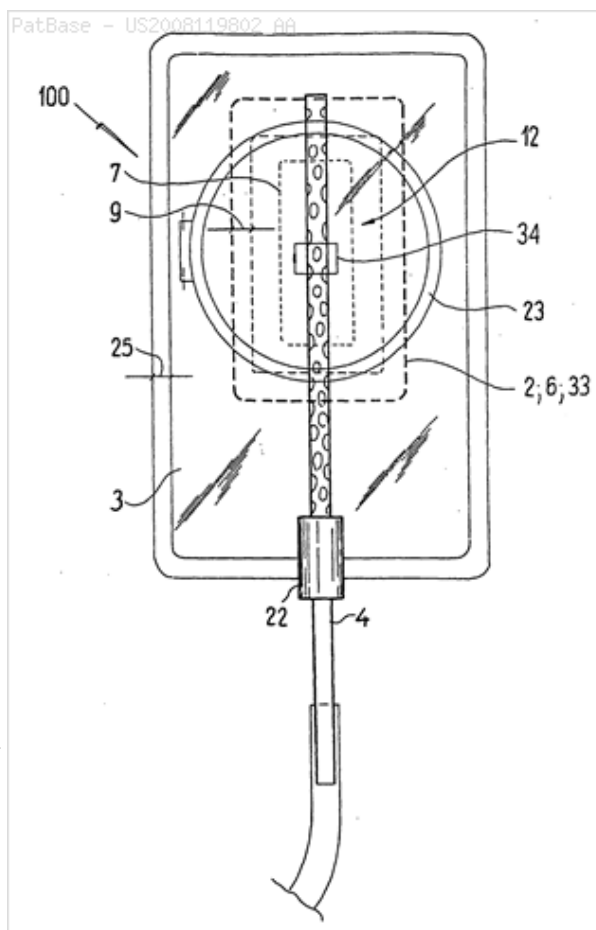
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US: 604/305 604/313 604/313P 604/319 604/319P

**Family:**

Publication number	Publication date	Application number	Application date
AT390941 E	20080415	AT20050806372T	20051102
AU2005309089 AA	20060601	AU20050309089	20051102
AU2005309089 BB	20110811	AU20050309089	20051102
CA2589312 AA	20070523	CA20052589312	20051102
CA2589312 C	20110118	CA20052589312	20051102
CN101065158 A	20071031	CN200580040071	20051102
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EP1814609 A1	20070808	EP20050806372	20051102
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ES2304730 T3	20081016	ES20050806372T	20051102
ES2304730 T5	20120118	ES20050806372T	20051102
PL1814609 T3	20080930	PL20050806372T	20051102
US2008119802 AA	20080522	US20050791058	20051102
US2011172617 AA	20110714	US20110041926	20110307
US7922703 BB	20110412	US20070791058	20070705
WO06056294 A1	20060601	WO2005EP11702	20051102

Priority:

DE200420018245U 20041124 WO2005EP11702 20051102 US20070791058 20070705
US20110041926 20110307

Probable Assignee: BSN MEDICAL GMBH

Assignee(s): (std): BIRGIT RIESINGER ; RIESINGER BIRGIT

Assignee(s): BR ENTWICKLUNGS GMBH AND CO KG ; BSN MEDICAL GMBH

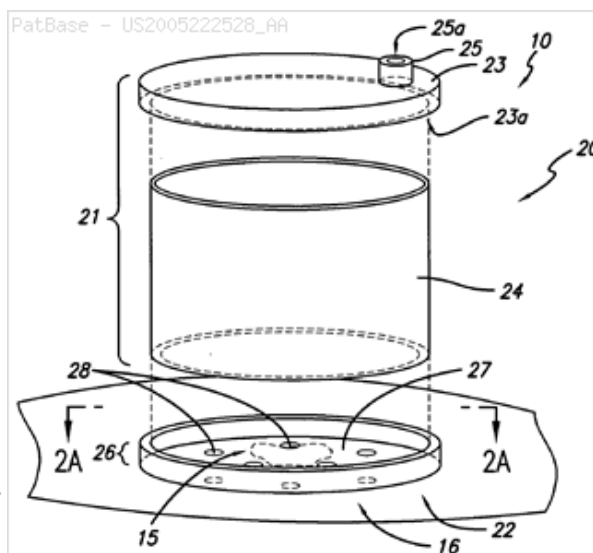
Inventor(s): (std): BIRGIT RIESINGER ; RIESINGER BIRGIT

Agent(s): FREEHILLS PATENT ATTORNEYS; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; HERBERT SMITH FREEHILLS; FETHERSTONHAUGH AND CO; HOFFMEISTER HELMUT; MICHALSKI HUETTERMANN AND PARTNER PATENTANWAELTE; MILDE AND HOFFBERG LLP; OCCHIUTI ROHLICEK AND TSAO LLP

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

Title: REDUCED PRESSURE WOUND CUPPING TREATMENT SYSTEM**Abstract:**

Source: US2005222528A A reduced pressure treatment appliance is provided for treating a wound on the body of a patient. In some embodiments, the appliance comprises a cover, which is further comprised of a top cup member and an interface member. The interface member comprises flow control means, which permit exudate from the wound to flow through the flow control means into the volume under the cover, but not in the opposite direction. Also, in some embodiments, the top cup member is further comprised of a lid member, a cup body member, and lid attachment means to removably attach the lid member to the cup body member. In some of these embodiments, it is possible to access the wound for monitoring, treatment and other purposes without removing the cover from the body. In other embodiments, the wound treatment appliance also includes a **vacuum** system to supply reduced pressure to the site of the wound in the volume under the cover. In yet other embodiments, a suction bulb may be used to provide a source of reduced pressure to a cover that covers the wound. Finally, methods are provided for using various embodiments of the treatment appliance.

**Classifications:**

International (IPC 8-9): A61F13/00 A61F13/15 A61F15/00 A61F5/00 A61M1/00 A61M27/00 A61M35/00 (Advanced/Invention);

A61F13/00 A61M27/00 A61M39/02 (Advanced/Non-invention);

A61F13/00 A61F15/00 A61F5/00 A61M1/00 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F15/00 A61F5/00 A61M1/00

CPC: A61M1/0023 A61M1/0056 A61F5/048 A61M2205/3334 A61M1/0072 A61M1/0031 A61M1/0001 A61M1/0011 A61M1/005 A61M1/0052 A61M1/0088 A61M2205/075 A61F13/00068

European: A61F5/048 A61M1/00A A61M1/00T6 K61M1/00A K61M1/00A5 K61M1/00H12C K61M1/00H12D K61M1/00P4 K61M205/07A2

US: 128/888 602/1 602/13 602/1P 602/53 602/75 602/79 604/290 604/304 604/305 604/305S 604/313 604/313P 604/314 604/315 604/315S 604/316 604/316S 604/319 604/319P 604/319S 604/320 604/320P 604/540 604/541 604/542 604/543 604/544

Family:

Publication number	Publication date	Application number	Application date
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EP1755701 A1	20070228	EP20050750239	20050519
EP1755701 A4	20100901	EP20050750239	20050519
EP2329855 A1	20110608	EP20110154569	20050519
US2005222528 AA	20051006	US20050098203	20050404
US2005222544 AA	20051006	US20050098265	20050404
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US2010174251 AA	20100708	US20100726161	20100317
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US2011118683 AA	20110519	US20100941390	20101108
US2013267921 AA	20131010	US20130902446	20130524
US2013274688 AA	20131017	US20130859670	20130409
US2014343519 AA	20141120	US20140446688	20140730

US7708724 BB	20100504	US20050098203	20050404
US7909805 BB	20110322	US20050098265	20050404
US8062272 BB	20111122	US20050064813	20050224
US8282611 BB	20121009	US20100726161	20100317
US8303552 BB	20121106	US20100719715	20100308
US8449509 BB	20130528	US20100832031	20100707
US8795243 BB	20140805	US20100719767	20100308
US9198801 BB	20151201	US20130902446	20130524
US9272080 BB	20160301	US20140446688	20140730
WO05115497 A1	20051208	WO2005US17225	20050519

Priority:

US20040559727P 20040405 US20040573655P 20040521 US20050064813 20050224
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US20100719767 20100308 WO2005US17225 20050519 EP20050750239 20050519
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US20130902446 20130524 US20130859670 20130409 US20140446688 20140730

Probable Assignee: BLUESKY MEDICAL GROUP INC

Assignee(s): (std): BLUE SKY MEDICAL GROUP INC ; BLUESKY MEDICAL GROUP INC ; WESTON RICHARD S ; WESTON RICHARD SCOTT

Assignee(s): HUNTLEIGH HEALTHCARE FUNDING LLC ; JOHNSON TIM

Inventor(s): (std): WESTON RICHARD ; WESTON RICHARD S ; WESTON RICHARD SCOTT

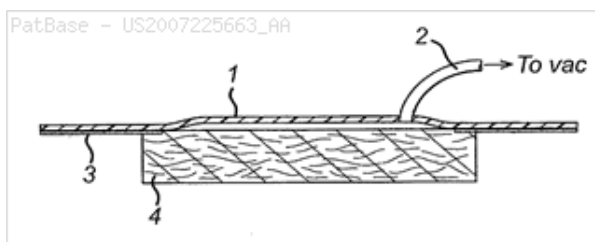
Agent(s): FINLAYSON AND SINGLEHURST; UNO JENNIFER ELIZABETH HAYES; LAW OFFICE OF KENNETH P KROHN; KNOBBE MARTENS OLSON AND BEAR LLP

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

Title: WOUND DRESSINGS FOR **VACUUM** THERAPY

Abstract:

Source: US2007225663A A wound dressing for **vacuum** therapy comprising: a cover configured for placement over the wound to maintain a reduced pressure over the wound and adapted for communication with a source of **vacuum**, and a screen structure for placement between the cover and the wound, wherein the screen structure is adapted to remove or inactivate undesirable components from the wound environment and/or to concentrate desirable components present in the wound environment. Also provided are kits for the assembly of such wound dressings, and systems comprising the wound dressings in combination with a source of **vacuum**.



Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61M1/00 A61M27/00 (Advanced/Invention);
A61F13/00 A61F13/02 A61M1/00 A61M27/00 (Core/Invention)

International (IPC 1-7): A61F13/00 A61M1/00 A61M27/00

CPC: A61M27/00 A61F13/02 A61F2013/00165 A61F2013/0017 A61F2013/00536 A61F2013/0091
A61M1/0088 A61M1/0092

European: A61F13/02 A61M1/00T6 A61M27/00 K61F13/00J7 K61F13/00J8 K61F13/00L12B
K61F13/00L1T

US: 602/42 602/42S 604/304 604/304S 604/313 604/313P

Family:

Publication number	Publication date	Application number	Application date
EP1758637 A1	20070307	EP20050755604	20050620
EP1758637 B1	20120201	EP20050755604	20050620
ES2380027 T3	20120507	ES20050755604T	20050620
GB200413867 A0	20040721	GB20040013867	20040621
GB2415382 A1	20051228	GB20040013867	20040621
US2007225663 AA	20070927	US20060609964	20061213
WO05123170 A1	20051229	WO2005GB02423	20050620

Priority:

GB20040013867 20040621 WO2005GB02423 20050620

Probable Assignee: SYSTAGENIX WOUND MANAGEMENT US INC

Assignee(s): (std): CULLEN BRED A M ; DEL BONO MICHELLE ; ETHICON INC ; GREGORY SARA J ; GREGORY SARA JAYNE ; JOHNSON AND JOHNSON MEDICAL LTD ; SILCOCK DEREK WALTER ; MARSDEN DONALD CHRISTOPHER ; LOWING PAUL H ; MARSDEN DONALD C ; SILCOCK DEREK W ; WATT PAUL WILLIAM ; TROTTER PATRICK JOHN ; WATT PAUL W ; TROTTER PATRICK J ; SYSTAGENIX WOUND MAN IP CO BV

Assignee(s): KCI USA INC ; BANK OF AMERICA NA COLLATERAL AGENT AS ; SYSTAGENIX WOUND MANAGEMENT US INC ; SYSTAGENIX WOUND MANAGEMENT INC ; JP MORGAN EUROPE LTD ; SYSTAGENIX WOUND MANAGEMENT IP CO ; SYSTAGENIX WOUND MANAGEMENT (US) INC ; SYSTAGENIX WOUND MANAGEMENT IP CO BV ; JOHNSON AND JOHNSON MEDICAL LIMITED

Inventor(s): (std): GREGORY SARA J ; GREGORY SARA JAYNE ; LOWING PAUL H ; LOWING PAUL HOWARD ; MARSDEN DONALD C ; MARSDEN DONALD CHRISTOPHER ; SILCOCK DEREK W ; SILCOCK DEREK WALTER ; TROTTER PATRICK J ; TROTTER PATRICK JOHN ; WATT PAUL W ; WATT PAUL WILLIAM ; WATT PAUL ; TROTTER PATRICK ; SILCOCK DEREK ; CULLEN BRED A M ; CULLEN BRED A MARY ; DEL BONO MICHELLE ; MARSDEN DONALD ; GREGORY SARA

Inventor(s): CULLEN BRED A ; LOWING PAUL ; DEREK WALTER SILCOCK ; DONALD CHRISTOPHER MARSDEN ; BRED A MARY CULLEN ; SARA JAYNE GREGORY ; PAUL WILLIAM WATT ; MICHELLE DEL BONO ; PATRICK JOHN TROTTER ; PAUL HOWARD LOWING

Agent(s): JAMES ANTHONY CHRISTOPHER W P ; PHILIP S JOHNSON ESQ JOHNSON AND

JOHNSON

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM
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GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU
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PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA
UG US UZ VC VN YU ZA ZM ZW

Title: **VACUUM** WOUND DRESSING

Abstract:

Source: US2006100594A Provided, in one embodiment, is a **vacuum** wound dressing for covering a wound bed comprising: a wound contact layer comprising a fibrous blend or fibrous material that forms a cohesive gel when wetted by wound exudate; a source of **vacuum** situated to be separated from the wound bed by the wound contact layer; and a **vacuum** sealing layer covering the wound contact layer and adapted to retain relative **vacuum** in the wound contact layer, wherein (i) the dressing is essentially missing a non-gelling, foam layer in which the source of **vacuum** is situated or (ii) the **vacuum** sealing layer comprises as an outer layer a foam layer.

Classifications:

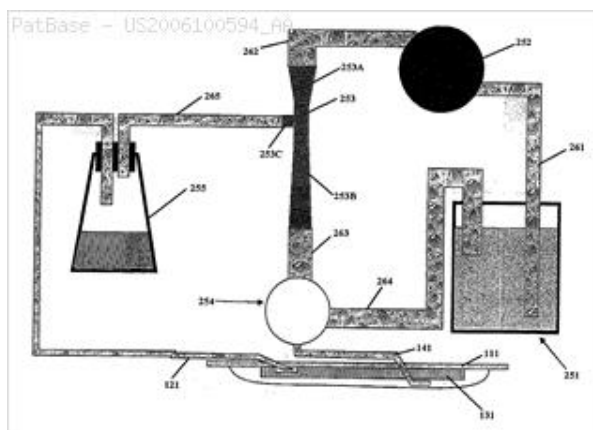
International (IPC 8-9): A61F13/00 A61M1/00 A61M27/00 A61M35/00 (Advanced/Invention); A61F13/00 A61M1/00

A61M27/00 (Core/Invention)

CPC: A61F13/00068 A61F2013/00089 A61F2013/00217 A61M1/0088 A61M1/0076 A61M1/008 A61M1/0084 A61M1/0096

European: A61M1/00T6 K61M1/00P8 K61M1/00T2 K61M1/00Z2

US: 604/289 604/304 604/313 604/313P 604/319 604/319S 604/35 604/543



Family:

Publication number	Publication date	Application number	Application date
CA2586437 AA	20070503	CA20052586437	20051104
CA2586437 C	20140708	CA20052586437	20051104
CA2849596 AA	20060518	CA20052849596	20051104
EP1807145 A2	20070718	EP20050825353	20051104
EP1807145 A4	20110420	EP20050825353	20051104
EP1807145 B1	20160323	EP20050825353	20051104
EP2883555 A2	20150617	EP20140193415	20051104
EP2883555 A3	20151007	EP20140193415	20051104
JP2008518726 T2	20080605	JP20070540112T	20051104
JP5154228 B2	20130227	JP20070540112T	20051104
MX2007005056 A1	20070619	MX2007005056	20051104
US2006100594 AA	20060511	US20050267046	20051104
US2012065602 AA	20120315	US20110229118	20110909
US8034037 BB	20111011	US20050267046	20051104
WO06052839 A2	20060518	WO2005US40189	20051104
WO06052839 A3	20061005	WO2005US40189	20051104

Priority:

US20040625488P 20041105
US20110229118 20110909
CA20142586437 20140513

WO2005US40189 20051104
CA20052586437 20051104

US20050267046 20051104
EP20050825353 20051104

Probable Assignee: CONVATEC TECHNOLOGIES INC

Assignee(s): (std): ADAMS SIMON ; BISHOP STEPHEN ; SQUIBB BRISTOL MYERS CO ; GRIFFITHS BRYAN ; SHAW HELEN ; CONVATEC TECHNOLOGIES INC ; GRIFFITHS BRYAN

Assignee(s): CONVATEC TECHNOLOGIES INC250-3993 HOWARD HUGHES PARKWAYLAS VEGASNV89169-6754US ; CONVATEC TECHNOLOGIES INC250 - 100 HOWARD HUGHES PARKWAYLAS VEGASNV89169-6754US ; BRISTOL MYERS SQUIBB COMPANY ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; BRISTOL MEYERS SQUIBB CO ; BRISTOL MYERS SQUIBB CO ; BRISTOL MYERS SQUIBB CO345 PARK AVENUE NEW YORK NY10154-0037US

Inventor(s): (std): ADAMS SIMON ; BISHOP STEPHEN ; GRIFFTHS BRYAN ; SHAW HELEN ;
GRIFFITHS BRYAN

Inventor(s): GRIFFITHS BRYANGB ; SHAW HELENGB ; STEPHEN BISHOP ; SIMON ADAMS ;
HELEN SHAW ; BRYAN GRIFFITHS ; BISHOP STEPHENGB ; ADAMS SIMONGB

Agent(s): OSLER HOSKIN AND HARCOURT LLP; MAYS JULIE; LAW OFFICES OF ARTHUR E
JACKSON; JOHN M

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM
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GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT
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PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT
TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: PREPARATION METHOD OF AN ANTI-MICROBIAL WOUND DRESSING AND THE USE THEREOF

Abstract: Source: US2008241229A The present invention discloses a method for the preparation of an anti-microbial wound dressing comprises alkalizing chitosan fiber to obtain alkalized chitosan fiber which is then etherified with chloroacetic acid to produce carboxymethyl chitosan fiber. Said fiber is made into dressing by fiber opening, web formation and needling. Alternatively chitosan fiber can be made into chitosan non-woven fabric by non-woven technique first which is then carboxymethylated. The fabric is then made into wound dressing by cutting, packaging and sterilizing. The present invention also discloses the uses of the anti-microbial wound dressing made according to said method. The dressing according to the present invention can be applied in surgical wound, burn, and other chronic wound. Said dressing, when covering wound, is able to prevent moisture losses in body fluid, provide a favorable moist environment necessary for wound healing and maintain a fluid-free, maceration-free, germ-free wound surface. Said dressing is antiphlogistic, hemostatic and antalgic and promotes wound healing.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/02 A61L15/00 A61L15/16 A61L15/28 A61L15/42 D04H1/42 D04H1/4266 D04H1/46 D06M11/83 D06M13/184 D06M23/08 (Advanced/Invention); A61F13/00 A61F13/02 A61L15/00 A61L15/16 D04H1/42 D04H1/46 D06M11/00 D06M13/00 D06M23/08 (Core/Invention); A61F A61L (Subclass/Invention)

CPC: D01F9/00 A61L15/46 A61F13/0203 A61L15/28 A61L2300/104 A61L2300/404

European: A61F13/02B A61L15/28 A61L15/46 K61L300/104 K61L300/404

US: 424/445 424/445P

Family:

Publication number	Publication date	Application number	Application date
AT479452 E	20100915	AT20050822619T	20051222
AU2005329351 AA	20060921	AU20050329351	20051222
AU2005329351 BB	20111201	AU20050329351	20051222
CN101141985 A	20080312	CN200580049123	20051222
CN101141985 B	20100512	CN200580049123	20051222
CN1833731 A	20060920	CN200510081246	20050624
CN1833732 A	20060920	CN200510088100	20050803
DE602005023353 D1	20101014	DE200560023353T	20051222
EP1859816 A1	20071128	EP20050822619	20051222
EP1859816 A4	20081105	EP20050822619	20051222
EP1859816 B1	20100901	EP20050822619	20051222
ES2351933 T3	20110214	ES20050822619T	20051222
HK1115072 A1	20101022	HK20080105047	20080506
HK1115072 A3	20081121	HK20080105047	20080506
JP2008532662 T2	20080821	JP20080501137T	20051222
JP5075811 B2	20121121	JP20080501137T	20051222
US2008241229 AA	20081002	US20050886459	20051222
WO06097024 A1	20060921	WO2005CN02290	20051222

Priority:

CN200510024442 20050317
CN200510088100 20050803

CN200510081246 20050624

WO2005CN02290 20051222

Probable Assignee: MEDTRADE PRODUCTS LTD

Assignee(s): (std): LANTOR UK LTD ; LI YIBIN ; ORIGIEN MEDICAL TECHNOLOGIES ; WU QINGJI ; CHENG LIPING ; LIYUAN MEDICAL TECHNOLOGY SHAN ; LIYUAN MEDICAL TECHNOLOGY SHANGHAI CO LTD

Assignee(s): MEDTRADE PRODUCTS LTD ; LANTOR (UK) LTD ; LANTOR UK LIMITED ; LIYUAN MEDICAL TECHNOLOGY SHANGHAI CO

Inventor(s): (std): CHENG LIPING ; LI YIBIN ; LIPING CHENG ; QINGJI WU ; WE DINGJI LI ; WU QINGJI ; WU QINGJI LI ; YIBIN LI

Inventor(s): QINGJI LI WU ; DINGJI LI WE

Agent(s): SPRUSON AND FERGUSON; FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; EPPING HERMANN FISCHER; MCKENNA LONG AND ALDRIDGE LLP

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

Inventor(s):

CARMELI ADAHAN

Agent(s):

COLLISON AND CO; FREEHILLS PATENT AND TRADE MARK ATTORNEYS;
FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS
PATENT ATTORNEY S; BROWDY AND NEIMARK PLLC

Title: INTERCONNECTION HAVING DUAL-LEVEL OR MULTI-LEVEL CAPPING LAYER AND METHOD OF FORMING THE SAME

Abstract: Source: US2007018329A An interconnection having a dual-level and multi-level capping layer and a method of forming the same. The interconnection may include an interlayer dielectric layer with a groove formed therein, a metal layer formed within the groove, a metal compound layer on the metal layer, a first barrier layer on the interlayer dielectric layer, and a second barrier layer on both the metal compound layer and the first barrier layer.

Classifications:

International (IPC 8-9): H01L21/28

H01L21/32 H01L21/3205 H01L21/4763

H01L21/768 H01L23/48 H01L23/52

H01L23/522 (Advanced/Invention);

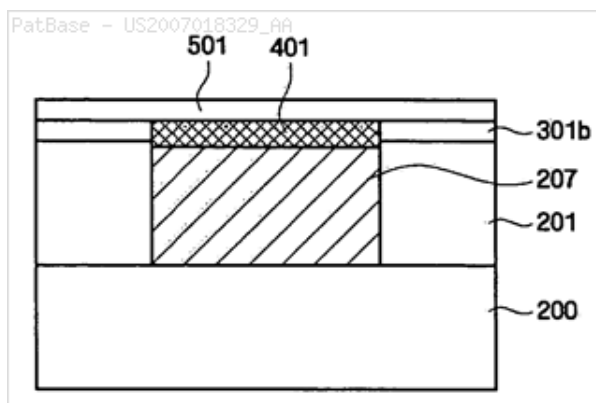
H01L21/28 (Advanced/Non-invention);

H01L21/02 H01L21/70 H01L23/48 H01L23/52 (Core/Invention)

CPC: H01L2924/0002 H01L21/76849 H01L21/76832 H01L21/76834 H01L21/76867 H01L21/76886

European: H01L21/768B10M H01L21/768B10S H01L21/768C3B8 H01L21/768C3F H01L21/768C8

US: 257/762 257/E21.495 257/E21.591 438/643



Family:

Publication number	Publication date	Application number	Application date
CN100568499 C	20091209	CN200610151329	20060720
CN1945826 A	20070411	CN200610151329	20060720
JP2007027769 A2	20070201	JP20060198688	20060720
KR100703973 B1	20070406	KR20050066007	20050720
KR20070010979 A	20070124	KR20050066007	20050720
US2007018329 AA	20070125	US20060488058	20060718
US2008299764 AA	20081204	US20080222347	20080807

Priority:

KR20050066007 20050720 US20060488058 20060718 US20080222347 20080807

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): MAENG DONG CHO ; OH JUN HWAN ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): DONG CHO OH JUN HWAN MAENG ; MAENG DONG CHO ; OH JUN HWAN

Inventor(s): OH JUN HWAN MAENG DONG CHO

Agent(s): HARNESS DICKEY AND PIERCE PLC

Title: SUCTIONING SYSTEM, METHOD AND KIT

Abstract: Source: US2007179460A A suction head in fluid communication with a pump head provides a sub-ambient working pressure to a medical site, enabling drainage thereof to a waste container and/or enhancing healing at the site. A passive pressure regulator enables the working pressure to be maintained at a desired level independent of the fluid flow through the system.

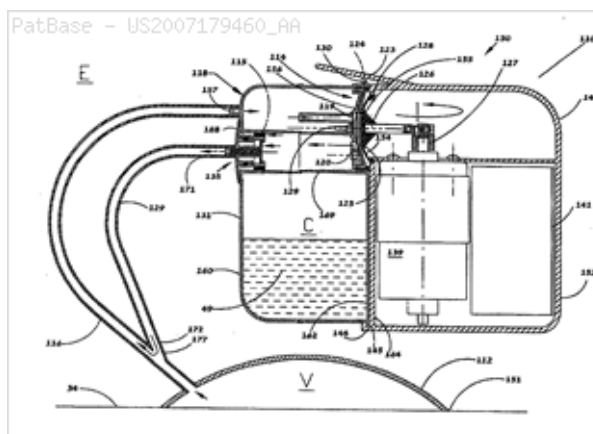
Classifications:

International (IPC 8-9): A47L9/00 A61F13/00 A61M1/00 A61M27/00 A61M35/00 F04B43/04 F04B43/067 F04B45/053 F04B49/00 F04B53/22 (Advanced/Invention); A47L9/00 A61F13/00 A61M1/00 A61M27/00 A61M35/00 F04B43/02 F04B43/06 F04B45/00 F04B49/00 F04B53/00 (Core/Invention)

CPC: Y10S604/902 F04B43/04 A61M1/0033 F04B43/067 F04B45/0533 A61M1/0001 A61M1/0027 A61M1/0031 A61M1/0037 A61M1/0066 A61M1/0072 F04B45/047 F04B53/22 A61M1/0023 A61M2205/3344 A61M1/0092 A61M1/0088 A61M2205/121

European: A61M1/00A A61M1/00H A61M1/00H2 A61M1/00P A61M1/00T6 F04B43/04 F04B43/067 F04B45/047 F04B45/053A F04B53/22 K61M1/00H1A K61M1/00H2A K61M1/00H4 K61M1/00P4 K61M1/00T6V

US: 15/300.1 15/300.100S 417/26 417/26S 604/290 604/290P 604/305 604/306 604/307 604/308 604/313 604/313S 604/315 604/315S 604/317 604/318 604/319 604/319P 604/320 604/321 604/322 604/323 604/326 604/326S 604/35 604/40 604/540 604/540P 604/541 604/542 604/543 604/544 604/902 606/131

**Family:**

Publication number	Publication date	Application number	Application date
AU2006273684 AA	20070201	AU20060273684	20060724
AU2006337399 AA	20070809	AU20060337399	20061108
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CA2614794 C	20140218	CA20052614794	20050724
CA2614797 AA	20080110	CA20062614797	20060724
CA2641134 AA	20080731	CA20062641134	20061108
CA2641134 C	20150630	CA20062641134	20061108
CN101227937 A	20080723	CN200680027174	20060724
CN101336117 A	20081231	CN200680052234	20061108
CN101336117 B	20120606	CN200680052234	20061108
EP1909863 A1	20080416	EP20050762092	20050724
EP1919533 A1	20080514	EP20060766170	20060724
EP1984042 A1	20081029	EP20060809847	20061108
JP2009502297 T2	20090129	JP20080523527T	20050724
JP2009502301 T2	20090129	JP20080523532T	20060724
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JP4944132 B2	20120530	JP20080552949T	20061108
US2007179460 AA	20070802	US20060344007	20060201
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US2009157016 AA	20090618	US20060989285	20060724
US2009198201 AA	20090806	US20090320866	20090206
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US8235972 BB	20120807	US20060223473	20061108

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WO07013049 A1	20070201	WO2005IL00784	20050724
WO07013064 A1	20070201	WO2006IL00855	20060724
WO07088530 A1	20070809	WO2006IL01287	20061108
WO07088530 C1	20071101	WO2006IL01287	20061108

Priority:

WO2005IL00784 20050724	AU20050330067 20050724	US20060989285 20060724
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IL20060000855 20060724		

Probable Assignee: ADAHAN CARMELI

Assignee(s): (std): ADAHAN CARMELI ; CARMELI ADAHAN

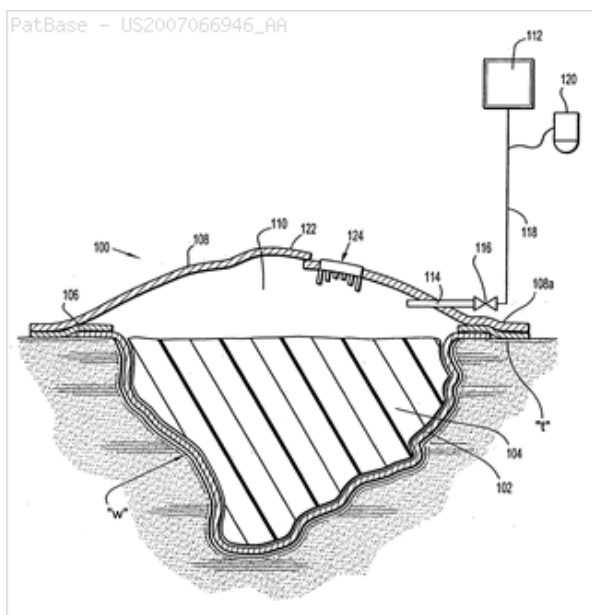
Inventor(s): (std): ADAHAN CARMELI ; CARMELI ADAHAN

Agent(s): COLLISON AND CO; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BANFI PAOLO; MINOJA FABRIZIO; NATH AND ASSOCIATES; THE NATH LAW GROUP; NATH LAW GROUP; ZHANG JIAXIAO; MEYER JERALD L; JIAXIAO; JERALD L; VORYS SATER SEYMOUR AND PEASE LLP; SUSANNE M; WILLIAM L; BROWDY AND NEIMARK PLLC

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

Title: WOUND DRESSING WITH **VACUUM** RESERVOIR**Abstract:**

Source: US2007066946A A wound dressing apparatus includes a wound dressing member dimensioned for positioning relative to a wound bed. The wound dressing member including an internal **vacuum** reservoir and has a port in communication with the **vacuum** reservoir for applying subatmospheric pressure to the **vacuum** reservoir to facilitate removal of fluid from the wound bed. The wound dressing member includes a visual pressure indicator associated therewith for indicating a level of pressure within the **vacuum** reservoir. The visual pressure indicator includes color indicia having a plurality of colors corresponding to a condition of the pressure within the **vacuum** reservoir. The wound dressing member includes a lower absorbent member positionable adjacent the wound bed and an upper member which at least partially defines the **vacuum** reservoir. At least one of the top member and the lower absorbent member has the visual pressure indicator mounted thereto. The preferred visual pressure indicator includes an electronic position sensor. The visual pressure indicator further includes circuit means and visible alarm means. The circuit means is adapted to actuate the visible alarm means when the position sensor detects a relative positioning of the top member of the wound dressing member to provide a visual indication of the condition of the subatmospheric pressure within the **vacuum** reservoir.

**Classifications:**

International (IPC 8-9): A61F13/00 A61F13/02 A61L15/44 A61M1/00 A61M27/00

A61M35/00 (Advanced/Invention);

A61M27/00 (Advanced/Non-invention);

A61L15/16 A61M1/00 A61M27/00 (Core/Invention);

A61M (Subclass/Invention)

International (IPC 1-7): A61M1/00

CPC: A61F13/0216 A61M1/0027 A61M1/0031 A61M27/00 A61M2205/15 A61M2205/18

A61M2205/3344 A61M2205/583 A61M2205/587 A61M2205/6081 A61F13/00068 A61M1/0088

European: A61M1/00H2 A61M1/00T6 K61M1/00H1A K61M205/15 K61M205/18 K61M205/33P5 K61M205/58D K61M205/58L K61M205/60P4 K61M27/00

US: 604/305 604/307 604/313 604/313P 604/315 604/318 604/318P 604/319 604/319S

Family:

Publication number	Publication date	Application number	Application date
AU2006287460 AA	20070315	AU20060287460	20060906
BRPI0615765 A2	20110524	BR2006PI15765	20060906
CA2619925 AA	20080220	CA20062619925	20060906
CN101257938 A	20080903	CN200680032667	20060906
EP1922095 A2	20080521	EP20060803096	20060906
IL189798 A0	20081103	IL20080189798	20080226
IN02293DN2008 A	20080815	IN2008DN02293	20080318
JP2009506877 T2	20090219	JP20080530190T	20060906
MX2008002882 A1	20080327	MX20080002882	20060906
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US2010280468 AA	20101104	US20100686813	20100113
US2013338613 AA	20131219	US20130775964	20130225
US2015119829 AA	20150430	US20140585589	20141230
US7699823 BB	20100420	US20060516925	20060906
US8409157 BB	20130402	US20100686813	20100113
US8956336 BB	20150217	US20130775964	20130225
WO07030598 A2	20070315	WO2006US34824	20060906

Priority:

US20050714805 20050907
US20060516925 20060906
US20140585589 20141230

US20050714805P 20050907
WO2006US34824 20060906

US20100686813 20100113
US20130775964 20130225

Probable Assignee: SMITH AND NEPHEW INC

Assignee(s): (std): COVIDIEN LP ; FINK DAVID ; GRUNDMEIER KATJA ; GRUNDMEIR RATJA ; TYCO HEALTHCARE ; HAGGSTROM KURT ; TYCO HEALTHCARE GROUP L P ; SMITH AND NEPHEW INC

Assignee(s): TYCO HEALTHCARE GROUP LP

Inventor(s): (std): DAVID FINK ; FINK DAVID ; GRUNDMEIER KATJA ; GRUNDMEIR KATJA ; GRUNDMEIR RATJA ; HAGGSTROM KURT ; KATJA GRUNDMEIR ; KURT HAGGSTROM

Inventor(s): RATJA GRUNDMEIR ; KATJA GRUNDMEIER

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; GRAY JAMES ET AL; CARTER DELUCA FARRELL AND SCHMIDT LLP; TYCO HEALTHCARE GROUP LP; ELIZABETH A; KNOBBE MARTENS OLSON AND BEAR LLP

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

Title: SELF CONTAINED WOUND DRESSING WITH MICROPUMP**Abstract:**

Source: US2007078366A A composite wound dressing apparatus promotes healing of a wound via the use of a micropump system housed within or above a wound dressing member. The micropump system includes a miniature pump that applies a subatmospheric pressure to the wound to effectively draw wound fluid or exudate away from the wound bed without the need for a cumbersome external **vacuum** source. Hence, the wound dressing and micropump system is portable which allows the patient mobility that is unavailable when an external **vacuum** source is used. The patient does not need to be constrained for any period of time while exudate is being removed from the wound.

Classifications:

International (IPC 8-9): A61F A61F13/00 A61F13/02 A61F15/00 A61M1/00 A61M27/00 A61M37/00 (Advanced/Invention); A61F13/00 A61F15/00 A61M1/00 A61M27/00 A61M37/00 (Core/Invention); A61F (Subclass/Invention)

International (IPC 1-7): A61F13/00

CPC: A61F13/0203 A61F13/023

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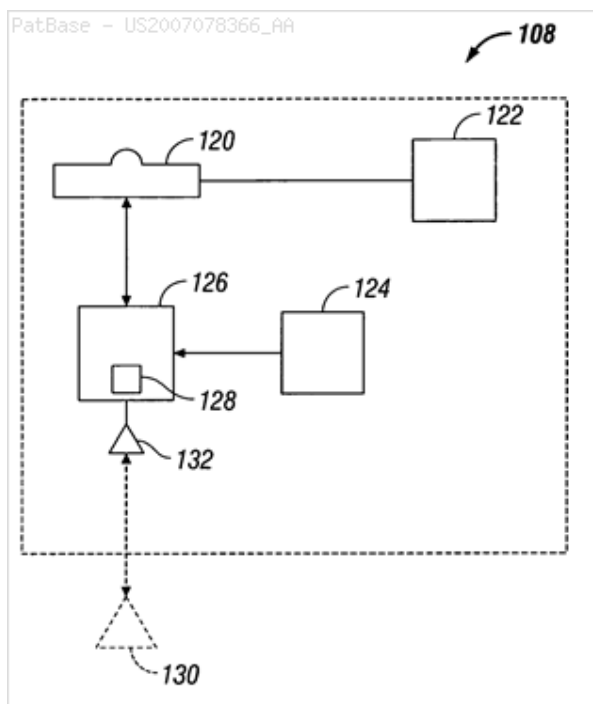
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US: 128/888 602/41 602/42 602/43 602/53 602/53P 602/54 604/304 604/305 604/315 604/319 604/319P 604/543 604/543S

**Family:**

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WO07030601 A3	20070531	WO2006US34827	20060906

Priority:

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WO2006US34827 20060906 US20060517210 20060906 US20050714812P 20050907
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Probable Assignee: SMITH AND NEPHEW INC

Assignee(s): (std): HAGGSTROM KURT ; JINGA LOREDANA ; LOREDANA JINGA ; TYCO
HEALTHCARE ; TRANCHEMONTAGNE ALAIN ; TYCO HEALTHCARE GROUP L P ;
SMITH AND NEPHEW INC ; SMITH AND NEPHEW

Assignee(s): SMITH AND NEPHEW LTD ; TYCO HEALTHCARE GROUP LP ; COVIDIEN LP

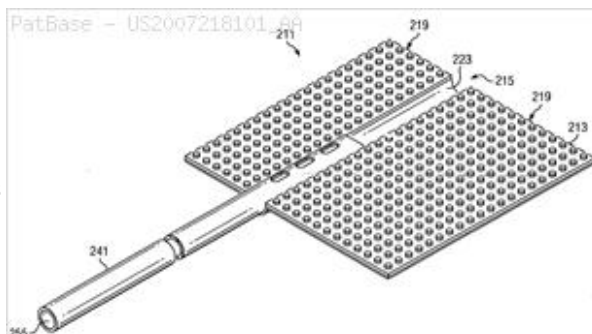
Inventor(s): (std): ALAIN TRANCHEMONTAGNE ; HAGGSTROM KURT ; JINGA LOREDANA ; KURT
HAGGSTROM ; LOREDANA JINGA ; TRANCHEMONTAGNE ALAIN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; GRAY JAMES ET AL; GRAY
JAMES; DR SHLOMO COHEN AND CO; CARTER DELUCA FARRELL AND SCHMIDT
LLP; TYCO HEALTHCARE GROUP LP; ELIZABETH A; ELIAS; KNOBBE MARTENS
OLSON AND BEAR LLP

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

Title: SYSTEM AND METHOD FOR PERCUTANEOUSLY ADMINISTERING REDUCED PRESSURE TREATMENT USING A FLOWABLE MANIFOLD

Abstract: Source: US2007218101A A reduced pressure delivery system for applying a reduced pressure to a tissue site includes a manifold delivery tube having a passageway and a distal end, the distal end configured to be percutaneously inserted and placed adjacent the tissue site. A flowable material is provided and is percutaneously deliverable through the manifold delivery tube to the tissue site. The flowable material is capable of filling a void adjacent the tissue site to create a manifold having a plurality of flow channels in fluid communication with the tissue site. A reduced pressure delivery tube is provided that is capable of fluid communication with the flow channels of the manifold.

**Classifications:**

International (IPC 8-9): A61M1/00 A01J A61B17/00 A61B17/08 A61B17/135 A61B17/34 A61B17/56 A61B17/80 A61B17/88 A61F13/00 A61F13/02 A61F13/84 A61F2/00 A61F2/30 A61F2/36 A61F2/958 A61F5/00 A61F5/50 A61H7/00 A61H9/00 A61H99/00 A61K31/655 A61K35/12 A61K38/18 A61K38/22 A61K47/02 A61K47/12 A61K47/26 A61K47/32 A61K47/34 A61K47/36 A61K47/42 A61K9/06 A61K9/08 A61K9/14 A61K9/70 A61L15/16 A61L15/20 A61L15/22 A61L15/28 A61L15/32 A61L15/36 A61L15/42 A61L15/44 A61L15/46 A61L31/14 A61M1/06 A61M25/00 A61M25/098 A61M25/10 A61M27/00 A61M29/00 A61M29/02 A61M3/02 A61M31/00 A61M35/00 A61M37/00 A61M39/00 A61M39/16 A61M5/00 A61M5/14 A61M5/142 A61M5/50 A61P17/02 A61P41/00 B23P17/04 (Advanced/Invention); A61B17/12 A61B17/135 A61B17/80 A61F13/00 A61F13/02 A61F2/30 A61F2/36 A61M1/00 A61M25/00 A61M27/00 A61M3/00 A61M31/00 F15B21/00 (Advanced/Non-invention); A61B17/00 A61B17/03 A61B17/34 A61B17/56 A61F13/00 A61F13/02 A61F13/15 A61H99/00 A61K35/12 A61K38/18 A61K47/02 A61K47/12 A61K47/32 A61K47/36 A61K47/42 A61L15/16 A61M1/00 A61M27/00 A61M29/00 A61M31/00 A61M37/00 B23P17/00 (Core/Invention); A61F13/00 A61F13/02 A61K35/12 A61K38/18 A61K47/02 A61K47/12 A61K47/32 A61K47/36 A61K47/42 A61M1/00 A61M27/00 A61M35/00 A61M37/00 (Core/Non-invention); A61F A61K A61M (Subclass/Invention)

International (IPC 1-7): A61F13/00 A61F5/00 A61K9/14 A61M1/00 A61M29/00

CPC: A61M25/10 A61M205/1093 A61F13/00017 A61F13/00063 A61F13/00068 A61F2013/00157 A61F2013/00174 A61F2013/00221 A61F2013/00255 A61F2013/00519 A61F2013/0054 A61F2013/0074 A61F2013/00863 A61F2013/00927 A61L15/20 A61L15/425 A61L15/54 A61L15/60 A61L15/64 A61L26/0066 A61L26/008 A61L26/0085 A61L26/009 A61L2300/406 A61L2300/414 A61L2300/64 A61M35/006 A61M1/0023 A61F2/0077 A61M5/14 A61L31/146 A61F2002/0086 A61F13/0216 A61M1/0037 A61M1/0092 A61M37/00 Y10T29/49826 A61B17/1355 A61B17/80 A61B17/88 A61F2/30767 A61F2/36 A61F2/3662 A61F2002/30677 A61F2002/30785 A61F2002/30787 A61F2002/30968 A61F2002/3611 A61F2002/3625 A61F2002/368 A61F2002/3694 A61F2310/00395 A61F2310/00592 A61F2310/00928 A61M25/0009 A61M25/0032 A61M25/0068 A61M25/0069 A61M25/007 A61M25/0071 A61M25/0074 A61M25/0082 A61M2025/0003 A61M2025/0034 A61M2025/0036 A61M2025/0076 A61M2205/04 A61M1/0088 A61M2205/3344 A61M25/003 A61M1/0086 A61M1/0025 A61M1/0031 A61M3/0283 A61M1/0058 A61M3/0295 A61M2207/00 A61M27/00 A61B17/12168 A61B17/12181 A61B17/12186 A61B17/1219 A61B17/12195 A61F2002/3068 A61M2025/1086 A61M2205/584 A61H9/005 A61H2201/0103 A61M1/0084

European: A61B17/88 A61F13/00A2D A61F13/00B6 A61F13/00B8 A61F2/36D A61L15/20 A61L15/42E A61L15/54 A61L15/60 A61L15/64 A61L26/00H2 A61L26/00H7 A61L26/00H8 A61L26/00H9 A61M1/00H A61M1/00T6 A61M25/00R1M6 A61M25/00R1M8 A61M25/00T10 A61M25/00T10A A61M25/00T20 A61M25/00T40 A61M27/00 A61M35/00B2 A61M37/00 K61B17/135B K61B17/80 K61F13/00J11A K61F13/00J13B K61F13/00J6 K61F13/00J8A K61F13/00L10B K61F13/00L12E K61F13/00L1R K61F13/00L1V K61F13/00L5A5 K61F2/30A5D K61F2/30L K61F2/30L2A9P K61F2/30L2A9Q K61F2/30M6 K61F2/36 K61F2/36C1 K61F2/36C2 K61F2/36D8A K61F2/36D8L K61F310/00L2 K61F310/00L6 K61F310/00L8 K61L300/406 K61L300/414 K61L300/640 K61M1/00T6V K61M25/00A2 K61M25/00G K61M25/00R1M10 K61M25/00R1M14 K61M25/00T10A K61M25/00T10C K61M25/00T10E K61M25/00T20A1 K61M25/10 K61M25/10Z22 K61M27/00

US: 1/1 128/897 128/897S 156/244.11 264/241 29/428 29/428S 424/423 424/423P 424/93.7 424/93.700S 514/1.1 514/1.100S 514/12 514/771 514/771S 514/772.6 514/772.600S 514/773

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604/97.020S 606/221 606/221P 623/23.72

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: KCI LICENSING INC

Assignee(s): (std): HEATON KEITH PATRICK ; JAEB JONATHAN PAUL ; JOHNSON ROYCE W ; CORNET DOUGLAS A ; KAGAN JONATHAN ; COMET DOUGLAS A ; AMBROSIC ARCHEL A ; AMBROSIO ARCHEL ; AMBROSIO ARCHEL A ; KCI LICENSING INC ; LOCKE CHRISTOPHER BRIAN ; PAYNE JOANNA ; MANWARING MICHAEL ; KEJSIAJ LAJSENGING INK ; KCI LICENSIG INC ; ROBINSON TIMOTHY MARK ; SWAIN LARRY D ; SANTORA CARL JOSEPH ; SWAIN LARRY ; LONG JUSTIN ALEXANDER ; MANWARING MICHAEL E

Assignee(s): KCI LICENSING INC US ; KCI INT INC ; KINETIC CONCEPTS INC ; KCI USA INC ; KCI HOLDING CO INC ; KCI INT ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL A ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; KCL LICENSING INC ; BANK OF AMERICA NA COLLATERAL AGENT AS ; CITIBANK NA ; CITIBANK NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): ALEXANDER LONG JUSTIN ; AMBROISO ARCHEL A ; AMBROSIC ARCHEL A ; AMBROSIO ARCHEL ; AMBROSIO ARCHEL A ; ARCHEL AMBROSIO ; BRIAN LOCKE CHRISTOPHER ; CARL JOSEPH SANTORA ; COMET DOUGLAS A ; CORNET DOUGLAS ; CORNET DOUGLAS A ; HEATON KEITH ; HEATON KEITH P ; HEATON KEITH PATRICK ; DZHAHEB DZHONATAN POL ; DZHONSON ROJS U ; JAEB JONATHAN PAUL ; JOANNA PAYNE ; JOHNSON ROYCE ; JOHNSON ROYCE W ; JOSEPH SANTORA CARL ; JUSTIN ALEXANDER LONG ; KAGAN JONATHAN ; KEATON KEITH PATRICK ; KEHGAN DZHONATAN ; KEHJGAN DZHONATAN ; KHITON KEJT PATRIK ; KORNET DUGLAS A ; JONATHAN KAGAN ; LARRY SWAIN ; LOCKE BRIAN ; LOCKE CHRISTOPHER B ; LOCKE CHRISTOPHER BRIAN ; LOK KRISTOFER BRAJAN ; LONG JUSTIN ALEXANDER ; MARK ROBINSON TIMOTHY ; MEHNUEHRING MAJKL ; MEHNUORING MAJKL ; MICHAEL MANWARING ; PATRICK HEATON KEITH ; PAUL JAEB JONATHAN ; PAYNE JOANNA ; MANWARING MICHAEL ; MANWARING MICHAEL E ; ROBINSON TIMOTHY M ; ROBINSON TIMOTHY MARK ; ROBINSON TIMOTI MARK ; ROBINSON TIMOTY MARK ; PEHJN DZHOANNA ; SANTORA CARL JOSEPH ; SWAIN LARRY ; SWAIN LARRY D ; SUEHJN LARRI D

Inventor(s): TIMOTHY MARK ROBINSON ; ROBINSON TIMOTHY ; ROYCE JOHNSON ; ROYCE W JOHNSON ; MANWARING MICHAEL AND ; LOCKE CHRISTOPHER ; JONATHAN PAUL JAEB ; LARRY D SWAIN ; KEITH HEATON ; KEITH PATRICK HEATON ; KEITH PATRICK KEATON ; DOUGLAS A CORNET ; CHRISTOPHER BRIAN LOCKE ; BRIAN LOCKE ; ARCHEL A AMBROISO ; ARCHEL A AMBROSIO

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; BORDEN LADNER GERVAIS LLP; MILLER JAMES LIONEL WOOLVERTON ET AL; CORDINA KEVIN JOHN; MAGGS MICHAEL NORMAN ET AL; ASHTON TIMOTHY; KITA AOYAMA INT PATENT BUREAU; ONE LEGAL LLC; KINETIC CONCEPTS INC ATTN LEGAL DEPARTMENT INTELLECTUAL PROPERTY; KINETIC CONCEPTS INC C O SONNENSCHN NATH AND ROSENTHAL LLP; SNR DENTON US LLP; WELCH GERALD T ET AL

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

Title: PRIMARY DRESSING

Abstract: Source: US2009093779A The invention relates to a liquid-permeable primary dressing in the form of a supple thermoplastic section of material (1.4), comprising: a first smooth surface (4); a second surface (5) facing away from the smooth surface (4); and a plurality of three-dimensional perforations, whose walls extend from the first smooth surface (4) and end in an overhang with a free edge, thus making the second surface (5) rough to the touch. At least one of the free edges has an angled section that is approximately perpendicular to a perforation axis. In a preferred embodiment, the periphery (13) of the material section is smooth on both sides, i.e. on both the first and second surfaces (4; 5), the periphery (13) of the surface (5) that was at first rough being thermally smoothed.

Classifications:

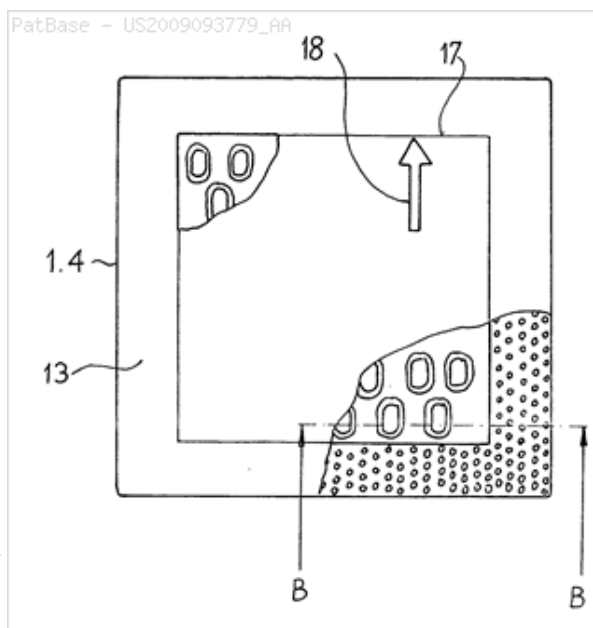
International (IPC 8-9): A61F13/00 A61F13/02 A61L15/24 A61L15/42 (Advanced/Invention); A61F13/00 A61F13/02 (Core/Invention)

CPC: A61F13/00029 A61F13/00034

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**Family:**

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Priority:

DE200610017194 20060412 WO2007EP03214 20070411

Probable Assignee: BSN MEDICAL GMBH

Assignee(s): (std): BSN MEDICAL GMBH ; RIESINGER BIRGIT

Assignee(s): BR ENTWICKLUNGS GMBH AND CO KG

Inventor(s): (std): RIESINGER BIRGIT

Agent(s): FETHERSTONHAUGH AND CO; MICHALSKI STEFAN ET AL; MICHALSKI STEFAN; THE NATH LAW GROUP; J PETER; ROSENBAUM IP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI
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Title: DEVICE AND METHOD FOR WOUND THERAPY**Abstract:**

Source: US2007265585A A wound therapy device is disclosed. The wound therapy device may include a housing for covering at least a portion of a wound and for sealing to a body surface of a patient. The housing may also include a liquid-retention chamber for retaining liquid therein and a **vacuum** connection for coupling to a **vacuum** source. The **vacuum** connection may be in gaseous communication with the liquid-retention chamber. The **vacuum** connection may be separated from the liquid-retention chamber by a liquid barrier.

Classifications:

International (IPC 8-9): A61B17/00

A61F13/20 A61H7/00 A61M1/00

A61M27/00 (Advanced/Invention);

A61F13/00 A61F13/15 A61M27/00 B65D69/00

B65D71/00 (Advanced/Non-invention);

A61B17/00 A61H7/00 A61M1/00 A61M27/00 (Core/Invention)

International (IPC 1-7): A61M1/00 A61M27/00

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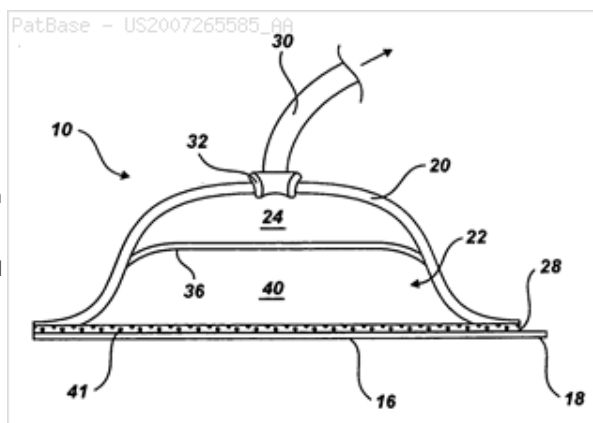
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**Family:**

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Priority:

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Probable Assignee: KALYPTO MEDICAL INC

Assignee(s): (std): DAYTON TROY C ; GORDON JOHN H ; GORDON JOHN HOWARD ; JOSHI ASHOK V ; HEISER JEREMY ; IASIS MEDICAL LLC ; KALYPTO MEDICAL INC ; BHAVARAJU SAI ; KALYPTO MEDICALS INC

Assignee(s): CERAMATEC INC ; IASIS MEDICAL INC

Inventor(s): (std): BHAVARAJU SAI ; DAYTON TROY ; DAYTON TROY C ; GORDON JOHN H ; GORDON JOHN HOWARD ; HEISER JEREMY ; JOSHI ASHOK ; JOSHI ASHOK V

Inventor(s): SAI BHAVARAJU ; TROY C DAYTON ; ASHOK V JOSHI ; JEREMY HEISER ; JOHN HOWARD GORDON ; ERFINDER WIRD SPAETER GENANNT WERDEN ; GORDON JOHN

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

Title: PORTABLE WOUND THERAPY SYSTEM

Abstract: Source: US2008082059A A portable system for subatmospheric pressure therapy in connection with healing a surgical wound, includes a wound dressing dimensioned for positioning relative to a wound bed of a subject, a portable subatmospheric pressure mechanism dimensioned to be carried or worn by the subject and a container for collecting exudates from the wound bed removed under the subatmospheric pressure supplied by the subatmospheric pressure mechanism. The portable subatmospheric pressure mechanism includes a housing, a subatmospheric pressure source disposed within the housing and in fluid communication with the wound dressing to supply subatmospheric pressure to the wound dressing and a power source mounted to or within the housing for supplying power to actuate the subatmospheric pressure source.

Classifications:

International (IPC 8-9): A61B17/03

A61F13/00 A61F13/02 A61F13/40 A61F15/00

A61F5/00 A61F5/30 A61M1/00 A61M27/00

A61M35/00 (Advanced/Invention);

A61F13/00 A61F13/02 A61F7/00 (Advanced/Non-invention);

A61B17/03 A61F13/00 A61F13/02 A61F13/40 A61F15/00 A61F5/00 A61F5/01 A61M1/00

A61M27/00 (Core/Invention)

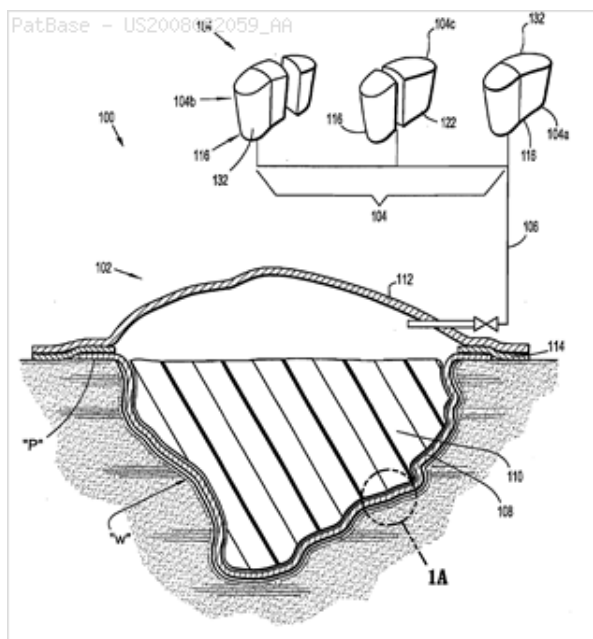
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A61M2209/088

European: A61M1/00A A61M1/00T6 K61M1/00A7 K61M209/08A K61M209/08P

US: 424/447 424/448 424/449 600/573 600/575 604/289 604/290 604/305 604/305P 604/306 604/307 604/308 604/313 604/315 604/316 604/319

**Family:**

Publication number	Publication date	Application number	Application date
AR063063 AA	20081223	AR2007P104322	20070928
AT456383 E	20100215	AT20070253826T	20070927
AU2007221765 AA	20080417	AU20070221765	20070928
AU2007221765 BB	20140320	AU20070221765	20070928
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CA2604623 AA	20080328	CA20072604623	20070927
CA2872297 AA	20080328	CA20072872297	20070927
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CN101176688 B	20120620	CN200710194410	20070928
DE602007004546 D1	20100318	DE200760004546T	20070927
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EP1905465 B2	20131127	EP20070253826	20070927
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IL186429 A0	20080120	IL20070186429	20071007
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IL231309 A0	20140430	IL20140231309	20140304

IL231461 A0	20140430	IL20140231461	20140311
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JP2008080137 A2	20080410	JP20070256268	20070928
JP2013255824 A2	20131226	JP20130164800	20130808
JP2015044050 A2	20150312	JP20140234206	20141119
JP5451968 B2	20140326	JP20070256268	20070928
MX2007012069 A1	20090212	MX20070012069	20070928
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US2014107599 AA	20140417	US20130134802	20131219
US8641691 BB	20140204	US20070904411	20070927
US9227000 BB	20160105	US20130134802	20131219

Priority:

US20060847886P 20060928	US20070904411 20070927	CA20072604623 20070927
JP20070256268 20070928	AU20070221765 20070928	JP20130164800 20070928
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Probable Assignee: TYCO HEALTHCARE GROUP LP

Assignee(s): (std): FINK DAVID ; HEAGLE DAVID ; MULLIGAN SHARON A ; TYCO HEALTHCARE ; TYCO HEALTHCARE GROUP L P ; SMITH AND NEPHEW INC

Assignee(s): SMITH AND NEPHEW INC1450 BROOKS ROADMEMPHISTN38116US ; TYCO HEALTHCARE GROUP LP ; MULLIGAN SHARON ; COVIDIEN LP

Inventor(s): (std): DAVID FINK ; DAVID HEAGLE ; FINK DAVID ; MULIGAN SHARON ; MULLIGAN SHARON ; MULLIGAN SHARON A ; MULLIGAN SHARON FINK DAVID HEA ; FINK E DAVID ; HEAGLE DAVID ; SHARON MULIGAN

Inventor(s): SHARON MULLIGAN ; HEAGLE DAVIDUS ; MULLIGAN SHARON FINK DAVID HEAGLE DAVID ; MULLIGAN SHARONUS ; FINK DAVIDUS

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; PRATT DAVID MARTIN; GRAY JAMES; DE ELZABURU ALBERTO; DR SHLOMO COHEN AND CO; KENDALL (CDFS); KENDALL CDFS; KNOBBE MARTENS OLSON AND BEAR LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO SE SI SK TR YU

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH
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MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL
SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMPOSITION CONTAINING AT LEAST ONE NUTRITIVE, AT LEAST ONE DISINFECTING OR DECONTAMINATING, AND/OR AT LEAST ONE PROTEASE-INHIBITING ACTIVE COMPOUND AND/OR ACTIVE COMPOUND COMPLEX

Abstract: Source: US2011171283A The present invention relates to a composition containing at least one nutritive, at least one disinfecting or decontaminating and/or at least one protease-inhibiting active compound and/or active compound complex for the external care and/or treatment of wounds of the human or animal body.

Classifications:

International (IPC 8-9): A61K31/08
A61K31/198 A61K31/375 A61K31/436
A61K31/444 A61K31/455 A61K31/51
A61K31/519 A61K31/522 A61K31/525
A61K31/59 A61K31/675 A61K31/714
A61K33/30 A61K35/00 A61K35/64 A61K36/886
A61K38/02 A61K38/28 A61K38/30 A61K38/39
A61K45/06 A61K47/36 A61K47/38 A61K9/00
A61L15/28 A61L15/44 A61L15/60 A61P17/02
A61P3/02 A61P31/00
A61P43/00 (Advanced/Invention);
A61P17/02 (Advanced/Non-invention);
A61K31/185 A61K31/375 A61K33/30 A61K9/00
A61P17/00 (Core/Invention)

CPC: A61K31/444 A61L15/60 A61L2300/204

A61L2300/404 A61K9/0014 A61K31/198

A61K31/375 A61K33/30 A61K45/06

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US: 424/445 424/445P 424/537 424/537S

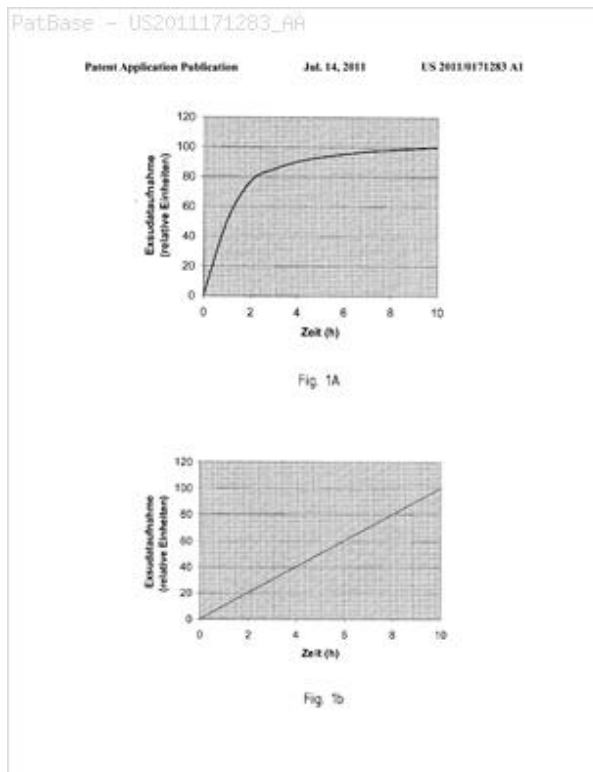
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514/263.340S 514/276 514/276S 514/291 514/291S 514/332 514/356 514/356S 514/474

514/474S 514/5.9 514/5.900S 514/52 514/52S 514/723 514/723S 514/779 514/779S 514/781

514/781S 514/8.5 514/8.500S 514/89 514/89S



Family:

Publication number	Publication date	Application number	Application date
DE102007030931 A1	20090108	DE200710030931	20070703
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EP2586437 A1	20130501	EP20120199019	20080701
US2011171283 AA	20110714	US20080667356	20080701
US2015104496 AA	20150416	US20140519495	20141021
WO09003991 A1	20090108	WO2008EP58421	20080701

Priority:

DE200710030931 20070703 WO2008EP58421 20080701 EP20080774571 20080701
US20100667356 20100616 US20140519495 20141021

Probable Assignee: BSN MEDICAL GMBH

Assignee(s): (std): BSN MEDICAL GMBH ; RIESINGER BIRGIT

Inventor(s): (std): RIESINGER BIRGIT

Agent(s): STORZ ULRICH; MICHALSKI HUETTERMANN AND PARTNER PATENTANWAELTE;
MICHALSKI HUETTERMANN AND PARTNER PATENTANWAELTE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH
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SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **VACUUM** ASSISTED WOUND DRESSING

Abstract:

Source: US2011009838A Apparatus for the application of topical negative pressure therapy to a wound site is described, the apparatus comprising: a wound contacting element for retaining wound exudate fluid therein; a wound covering element that provides a substantially airtight seal over the wound contacting element and wound site; a **vacuum** connection tube connecting a wound cavity to a **vacuum** source; and a **vacuum** source connected to a distal end of the **vacuum** connection tube.

Classifications:

International (IPC 8-9): A61B17/00

A61F13/00 A61F13/02 A61F13/15 A61L15/16

A61L15/44 A61M1/00

A61M27/00 (Advanced/Invention);

A61F13/00 A61M1/00 (Advanced/Non-invention);

A61F13/00 A61F13/02

A61M1/00 (Core/Invention);

A61F13/00 A61M1/00 (Core/Non-invention)

CPC: A61F2013/0028 A61M1/00 A61F13/00029 A61F13/00046 A61M1/0092 A61F2013/0094

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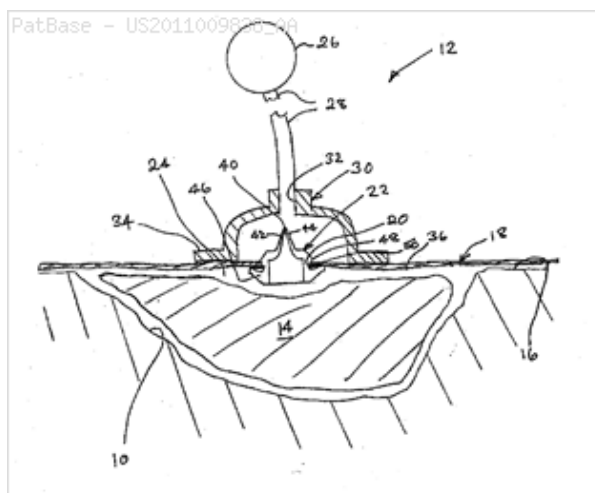
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A61M1/009

European: A61F13/02 A61M1/00T6 K61F13/00L12H K61F13/00L1T K61M1/00H12 K61M1/00T6P

K61M205/75D K61M39/24

US: 604/313 604/317 604/319 604/319P 604/543



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20150869826	20150929				

Probable Assignee: SMITH AND NEPHEW

Assignee(s): (std): GREENER BRYAN ; HARTWELL EDWARD YERBURY ; SMITH AND NEPHEW

Assignee(s): SMITH AND NEPHEW PLC ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW PUBLIC LIMITED COMPANY ; TJ SMITH AND NEPHEW LTD

Inventor(s): (std): BRYAN GREENER ; GREENER BRYAN ; HARTWELL EDWARD YERBURY ; YERBURY HARTWELL EDWARD

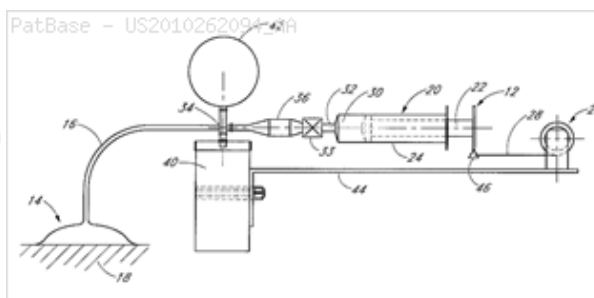
Inventor(s): EDWARD YERBURY HARTWELL

Agent(s): DAVIES COLLISON CAVE; GRIFFITH HACK; ADCOCKS CLAIR; SMITH AND NEPHEW; KNOBBE MARTENS OLSON AND BEAR LLP; HARRISON GODDARD FOOTE

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

Title: SUCTION DEVICE AND DRESSING

Abstract: Source: US2010262094A Some embodiments are directed to a system 10 for the application of topical negative pressure therapy to a site 18 on the body of a mammal. Some embodiments of the system 10 comprise a piston 22 and cylinder 24 device 12 having a self-contained power source for the generation of a reduced pressure and for aspirating the site 18. Some embodiments of the system 10 comprise a dressing 14 sealably surrounding the site 18 that can be operably connected to the device 12 by a conduit means 16 to apply the reduced pressure to the site 18.

**Classifications:**

International (IPC 8-9): A61F13/00 A61M1/00 (Advanced/Invention);

A61M1/00 (Core/Invention)

CPC: A61M1/0066 A61M1/0068 A61M1/0088 A61M1/009 A61F13/00068 A61M1/0031 A61M1/0086 A61F2013/0028 A61M1/0023

European: A61M1/00H A61M1/00P A61M1/00T6 K61M1/00P2

US: 604/313 604/319 604/319P 604/321

Family:

Publication number	Publication date	Application number	Application date
EP2217298 A2	20100818	EP20080852436	20081121
EP2217298 B1	20151111	EP20080852436	20081121
EP2987510 A1	20160224	EP20150182218	20081121
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Priority:

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Probable Assignee: SMITH AND NEPHEW

Assignee(s): (std): SMITH AND NEPHEW ; WALTON EDWARD WILLIAM ; WALTON GEORGE RUSSELL

Assignee(s): T J SMITH AND NEPHEW LIMITED ; T J SMITH AND NEPHEW LTD ; TJ SMITH AND NEPHEW LTD

Inventor(s): (std): WALTON EDWARD WILLIAM ; WALTON GEORGE RUSSELL

Agent(s): ADCOCKS CLAIR; SMITH AND NEPHEW; DE ELZABURU ALBERTO; KNOBBE MARTENS OLSON AND BEAR LLP; DELANEY KAROLINE A

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

Title: WOUND DRESSING PORT AND ASSOCIATED WOUND DRESSING**Abstract:**

Source: US2009227968A A wound dressing for use in a **vacuum** wound therapy treatment includes a backing layer for positioning over a wound to define a reservoir in which a reduced pressure may be maintained over the wound. A portal member affixed to the backing layer provides a connection to a reduced pressure source through an opening in an ambient surface. A primary port extends between the opening and a primary aperture in a reservoir surface to providing fluid communication between the reservoir and the reduced pressure source. At least one supplemental port establishes fluid communication between the primary port and a supplemental aperture in the reservoir surface that is distinct and substantially spaced from the primary aperture.

Classifications:

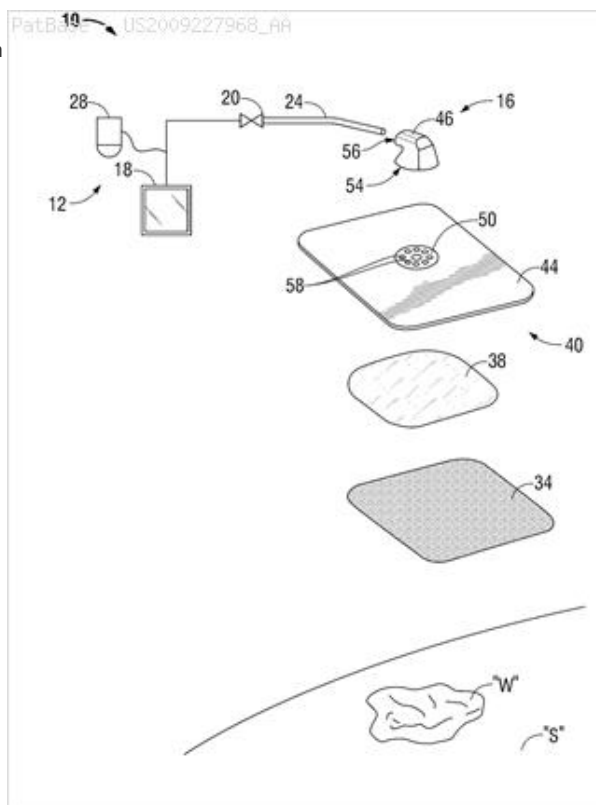
International (IPC 8-9): A61B A61B1/00 A61F13/00 A61F13/02 A61F15/00 A61M1/00 A61M27/00 (Advanced/Invention); A61M27/00 (Advanced/Non-invention); A61F13/00 A61F13/02 A61F15/00 A61M1/00 A61M27/00 (Core/Invention); A61B (Subclass/Invention)

International (IPC 1-7): A61F13/02

CPC: A61M1/0088 A61F13/00068 A61F13/02 A61M27/00 A61F13/0206 A61F13/0216 A61M1/0031 A61F13/0266 A61F2013/0028

European: A61F13/02 A61M1/00T6 K61M27/00

US: 602/42 602/42S 604/304 604/313 604/313P 604/543

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

US20080044051 20080307
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CA20092653146 20090210
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EP20090152714 20090212

Probable Assignee: SMITH AND NEPHEW INC

Assignee(s): (std): SMITH AND NEPHEW INC ; TYCO HEALTHCARE ; VESS MARK A

Assignee(s): COVIDIEN LP ; TYCO HEALTHCARE GROUP LP

Inventor(s): (std): VESS MARK ; VESS MARK A ; MARK VESS

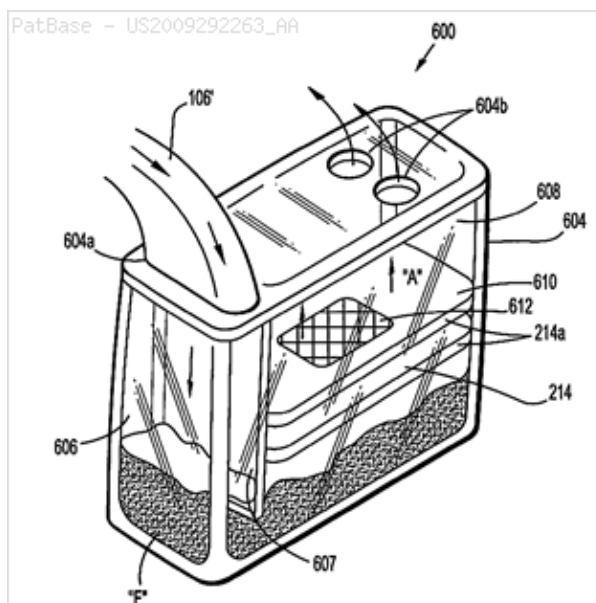
Inventor(s): MARK A VESS

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; ALVARO CORREA ORDONEZ;
ALVARO JOSE CORREA ORDONEZ; GRAY JAMES; REINHOLD COHN AND
PARTNERS; TYCO HEALTHCARE GROUP LP,D/B/A COVIDIEN; TYCO
HEALTHCARE GROUP LP D B A COVIDIEN; KNOBBE MARTENS OLSON AND BEAR
LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV
MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: WOUND THERAPY SYSTEM WITH PORTABLE CONTAINER APPARATUS**Abstract:**

Source: US2009292263A A portable system for subatmospheric pressure therapy in connection with healing a surgical wound, including a wound dressing dimensioned for positioning relative to a wound bed of a subject and a subatmospheric pressure mechanism dimensioned to be carried or worn by the subject. The subatmospheric pressure mechanism includes a housing having a control unit adapted to draw a vacuum and a canister associated with the housing. The canister has a collection bag disposed therein, which is in fluid communication with the wound dressing to receive exudates from the wound bed. The collection bag is adapted to expand upon receipt of the fluids and has means to release gas from within the collection bag in connection with operation of the control unit. With this arrangement, the canister is attitude independent, i.e., the canister may be positioned on edge, on its side or on its end etc. while still maintaining operation of the control unit. The collection bag may include a hydrophobic vent or material for releasing the gases. In another embodiment, the collection bag comprises a gas permeable material. The collection bag may include one of pleats or bellows.

**Classifications:**

International (IPC 8-9): A61F13/00 A61M1/00 A61M27/00 A61M5/00 (Advanced/Invention);

A61F13/00 A61M1/00 (Core/Invention)

CPC: A61M1/0001 A61M1/0011 A61M1/0017 A61M1/005 A61M1/0052 A61M1/0088 A61M2205/21 A61M2205/7536 A61M1/0023 A61M27/00 A61M2209/088

European: A61M1/00A A61M1/00T6 K61M1/00A8 K61M1/00H12C K61M1/00H12D K61M205/21 K61M205/75D

US: 602/43 602/43S 604/10 604/313 604/313P 604/315 604/540 604/543

Family:

Publication number	Publication date	Application number	Application date
US2009292263 AA	20091126	US20080124707	20080521
US2014012233 AA	20140109	US20130777171	20130226
US2015073359 AA	20150312	US20140486338	20140915
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US8834452 BB	20140916	US20130777171	20130226

Priority:

US20080124707 20080521 US20130777171 20130226 US20140486338 20140915

Probable Assignee: SMITH AND NEPHEW INC

Assignee(s): (std): BREITWEISER KENNETH M ; COVIDIEN LP ; DORSEY MICHAEL C ; HUDSPETH MICHAEL D ; TYCO HEALTHCARE ; SISK RICKY A ; SMITH AND NEPHEW INC

Assignee(s): TYCO HEALTHCARE GROUP LP

Inventor(s): (std): BREITWEISER KENNETH M ; DORSEY MICHAEL C ; HUDSPETH MICHAEL D ; SISK RICKY A

Agent(s): TYCO HEALTHCARE GROUP LP,D/B/A COVIDIEN; TYCO HEALTHCARE GROUP LP D B A COVIDIEN; KNOBBE MARTENS OLSON AND BEAR LLP

Inventor(s): (std): CORLEY KEVIN ; DAVID G HEAGLE ; HEAGLE DAVID G ; KEVIN CORLEY ;

KRISTIN L WATSON ; WATSON KRISTIN L

Inventor(s): WATSON KRISTIN LUS ; HEAGLE DAVID GUS ; CORLEY KEVINUS

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; OLSSON CARL H S; TYCO
HEALTHCARE GROUP LP; KNOBBE MARTENS OLSON AND BEAR LLP;
JARMOLOWICZ EDWARD ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH
CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD
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SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA
ZM ZW

Title: APPARATUSES AND METHODS FOR NEGATIVE PRESSURE WOUND THERAPY

Abstract: Source: US2012116334A Disclosed herein are several embodiments of a negative pressure appliance and methods of using the same in the treatment of wounds. Some embodiments are directed to improved fluidic connectors or suction adapters for connecting to a wound site, for example using softer, kink-free conformable suction adapters.

Classifications:

International (IPC 8-9): A61F13/02 A61F13/36 A61M1/00 A61M27/00 (Advanced/Invention)

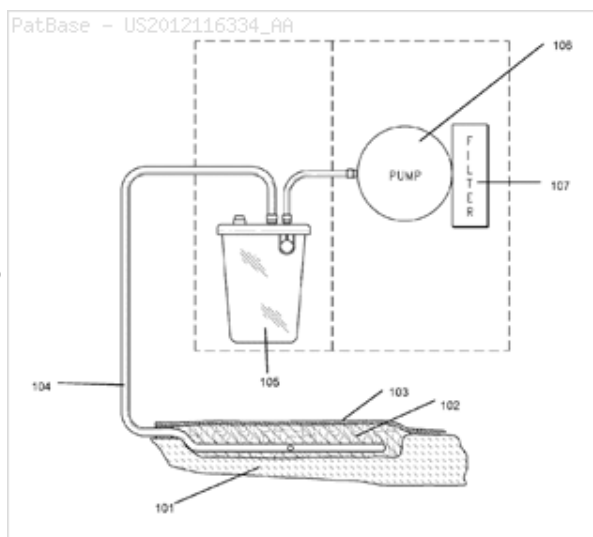
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European: A61F13/02 A61M1/00T6 K61F13/00J12 K61F13/00L1T K61F13/00L2F K61F13/00L9 K61M1/00T6V

US: 604/319 604/319P D24/108

Locarno class: 24/02 24/01

**Family:**

Publication number	Publication date	Application number	Application date
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WO11087871 A3	20111027	WO2010US61938	20101222

Priority:

US20090289358P 20091222	US20100332440P 20100507	US20100369008P 20100729
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US20140501203F 20140902		

Probable Assignee: SMITH AND NEPHEW INC

Assignee(s): (std): ALBERT SEAN ; ARMSTRONG ED ; BEAUDOIN KEN ; BLACKBURN IAIN MICHAEL ; BUSSONE PHIL ; EMMERSON ROBERT ; EWASCHUK MIKE ; GUARRAIA MARK ; GODDARD ANDREW ; GORDON JOSEPH ; GIANELIS STEPHEN ; CRAWFORD BRENDAN ; KEITH LUCAS DARWIN ; JOHNSON TIM ; GIANELIS STEVEN ; STERN TIM ; SMITH AND NEPHEW INC ; WHITE MARK ; NELSEN DAN ; LINTON ANDREW ; SALAME MICHAEL

Assignee(s): N A

Inventor(s): (std): ALBERT SEAN ; ANDREW GODDARD ; ANDREW LINTON ; ARMSTRONG ED ;

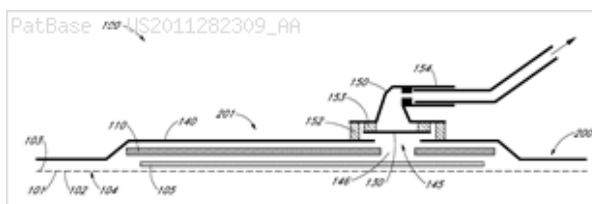
BEAUDOIN KEN ; BLACKBURN IAIN MICHAEL ; BRENDAN CRAWFORD ;
BUSSONE PHIL ; CRAWFORD BRENDAN ; DAN NELSEN ; DARWIN KEITH LUCAS
; ED ARMSTRONG ; EMMERSON ROBERT ; EWASCHUK MIKE ; GIANELIS
STEPHEN ; GIANELIS STEVEN ; GODDARD ANDREW ; GORDON JOSEPH ;
GUARRAIA MARK ; JOHNSON TIM ; JOSEPH GORDON ; KEITH LUCAS DARWIN ;
KEN BEAUDOIN ; LINTON ANDREW ; MARK GUARRAIA ; MARK WHITE ;
MICHAEL BLACKBURN IAIN ; MICHAEL SALAME ; MIKE EWASCHUK ; NELSEN
DAN ; PHIL BUSSONE ; ROBERT EMMERSON ; SALAME MICHAEL ; SEAN ALBERT
; STEPHEN GIANELIS ; STERN TIM ; TIM JOHNSON ; TIM STERN ; WHITE
MARK

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; CONNORS MARTIN L H;
KNOBBE MARTENS OLSON AND BEAR LLP; DELANEY KAROLINE A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH
CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD
GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP
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SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN
ZA ZM ZW

Title: WOUND DRESSING AND METHOD OF USE

Abstract: Source: US2011282309A A system, method, and apparatus are disclosed for dressing a wound. The apparatus comprises a liquid and gas permeable transmission layer, an absorbent layer for absorbing wound exudate, the absorbent layer overlying the transmission layer, a gas impermeable cover layer overlying the absorbent layer and comprising a first orifice, wherein the cover layer is moisture vapor permeable.

**Classifications:**

International (IPC 8-9): A47J A61F13/00 A61F13/02 A61L15/16 A61M1/00 A61M27/00 A61M35/00 B63B D06N1/00 (Advanced/Invention);

A01B1/00 A61F13/00 A61F13/02 A61M1/00 A61M27/00 (Advanced/Non-invention)

CPC: A61F2013/00604 A61M2205/15 A61M2205/7536 A61F13/00063 A61F13/0209 A61F13/069

A61F2013/00157 A61F2013/00246 A61F2013/00412 A61F2013/00519 A61F2013/00744

A61F2013/00825 A61F2013/00855 A61F2013/0091 A61F2013/00914 A61M27/00 A61F13/023

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European: A61F13/00B6 A61F13/00B8 A61F13/02B A61F13/02B2B A61F13/02B8 A61F13/02C A61M1/00T6 A61M27/00 K61F13/00J13 K61F13/00J6 K61F13/00J8A K61F13/00L10 K61F13/00L12B K61F13/00L12C K61F13/00L1C K61F13/00L1R K61F13/00L1T K61F13/00L1V K61F13/00L2K K61F13/00L5A6 K61F13/00L7C K61F13/06D9 K61M1/00H12D K61M205/75D

US: 1/1 604/319 604/319P

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: SMITH AND NEPHEW

Assignee(s): (std): ADIE GORDON CAMPBELL ; COLLINSON SARAH JENNY ; FRYER CHRISTOPHER JOHN ; HARTWELL EDWARD YERBURY ; NICOLINI DEREK ; SMITH AND NEPHEW ; PERON YANNICK LOUIS ; SMIT EHND NEF JU PIEHLSI

Assignee(s): TJ SMITH AND NEPHEW LTD ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW PLC

Inventor(s): (std): ADIE GORDON CAMPBELL ; COLLINSON SARAH JENNY ; EHD I GORDON

KEHMPBELL ; FRAJER KRISTOFER DZHON ; FRYER CHRISTOPHER JOHN ;
HARTWELL EDWARD YERBURY ; KHARTVELL EHDVARD JERBERI ; KOLLINZON
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PERON YANNICK LOUIS

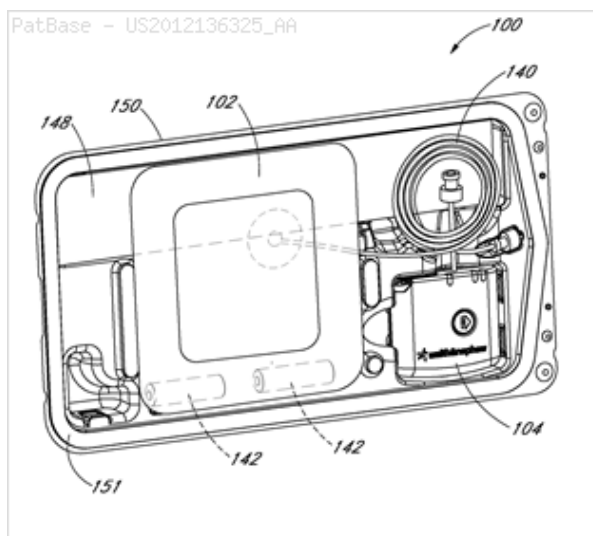
Inventor(s): SARAH JENNY COLLINSON ; YANNICK LOUIS PERON ; GORDON CAMPBELL ADIE
; DEREK NICOLINI ; EDWARD YERBURY HARTWELL ; CHRISTOPHER JOHN
FRYER

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; CONNORS MARTIN LH; SMITH
AND NEPHEW; RUTHERFORD CLAIRE; DE ELZABURU ALBERTO; KNOBBE
MARTENS OLSON AND BEAR LLP; CONNORS MARTIN

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

Title: SYSTEMS AND METHODS FOR CONTROLLING OPERATION OF A REDUCED PRESSURE THERAPY SYSTEM

Abstract: Source: US2012136325A Negative pressure wound therapy apparatuses and dressings, and systems and methods for operating such apparatuses for use with dressings are disclosed. In some embodiments, controlling the delivery of therapy can be based on monitoring and detecting various operating conditions. An apparatus can have a controller configured to monitor the duty cycle of a source of negative pressure and, based on the monitored duty cycle, determine whether a leak is present. The controller can be configured to provide an indication that a leak is present. For example, the controller can be configured to suspend and/or pause the delivery of therapy, and to restart the delivery of therapy due to a timeout, request from a user, etc. In addition, the controller can be configured to pause and/or restart the delivery of therapy upon a request from the user, such as in response to the user operating a switch.

**Classifications:**

International (IPC 8-9): A61F13/00 A61M1/00 A61M27/00 A61M31/00 (Advanced/Invention); A61M31/00 A61M5/168 (Advanced/Non-invention)

CPC: A61M2205/3334 A61M2205/8206 A61M1/0031 A61M5/16831 A61M2205/15 A61M2205/18 A61M2205/3344 A61M2205/8212 A61M1/0025 A61M1/0003 A61F13/00068 A61F2013/00174 A61M1/0088 A61M1/0037 A61M1/0035

European: A61M1/00H2 A61M1/00T6 K61M205/15 K61M205/33P5 K61M205/82B2

US: 604/317 604/318 604/319 604/319P 604/320 604/323 604/326 604/500 604/543

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: SMITH AND NEPHEW

Assignee(s): (std): ALLEN JULIE ; ASKEM BEN ALAN ; COLLINSON SARAH JENNY ; GREENER BRYAN ; HUGHEY RICHARD ; SMITH AND NEPHEW ; NICOLINI DEREK ; HUGHEY RICHARD THOMAS

Assignee(s): SMITH AND NEPHEW MEDICAL LTD ; TJ SMITH AND NEPHEW LTD ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW PLC

Inventor(s): (std): ALLEN JULIE ; ASKEM BEN ALAN ; COLLINSON SARAH JENNY ; GREENER BRYAN ; HUGHEY RICHARD ; HUGHEY RICHARD THOMAS ; NICOLINI DEREK

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; CONNORS MARTIN LH; SMITH AND NEPHEW; DE ELZABURU ALBERTO; KNOBBE MARTENS OLSON AND BEAR LLP; CONNORS MARTIN; DELANEY KAROLINE A

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

Title: MEDICAL ANTI-MICROBIAL SILVER-PLATED DRESSING AND PREPARATION METHOD THEREOF**Abstract:**

Source: CN102492925A The invention discloses a medical anti-microbial silver-plated dressing and a preparation method thereof. The preparation method of the medical anti-microbial silver-plated dressing includes steps of mixing calcium alginate fibers and cellulose fibers to prepare a dressing substrate and preparing a silver-particle plated layer on the surface of the dressing substrate by means of **vacuum** sputtering. The medical anti-microbial silver-plated dressing has broad-spectrum anti-microbial performance, is simple and easy in preparation method and low in cost.

Classifications:**International (IPC 8-9):** A61F13/15 C23C14/14 C23C14/34 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CN102492925 A	20120613	CN201110415337	20111213

Priority:

CN201110415337 20111213

Probable Assignee: QM EQUIP RES INST DEPT PLA**Assignee(s):** (std): MILITARY SUPPLIES EQUIPMENT INST PLA GENERAL LOGISTICS DEPARTMENT ; QM EQUIP RES INST DEPT PLA**Assignee(s):** QUARTERMASTER EQUIPMENT RESEARCH INST GENERAL LOGISTIC DEPARTMENT OF PLA ; THE QUARTERMASTER EQUIPMENT RESEARCH INSTITUTE THE GENERAL LOGISTIC DEPARTMENT OF PLA**Inventor(s):** (std): HUA ZHANG ; JIANCHUN ZHANG ; KAN LAI ; MEIYU CHEN**Inventor(s):** ZHANG HUA ; ZHANG JIANCHUN ; CHEN MEIYU ; LAI KAN

Title: WOUND CARE ARTICLE HAVING A PATTERN OF INCISIONS AND/OR PUNCHINGS

Abstract: Source: US2014135721A The invention relates to a wound care article, comprising a planar absorption body made of a nonwoven material or air-laid material containing superabsorbent polymers, wherein said planar absorption body has a pattern of incisions and/or punchings.

Classifications:

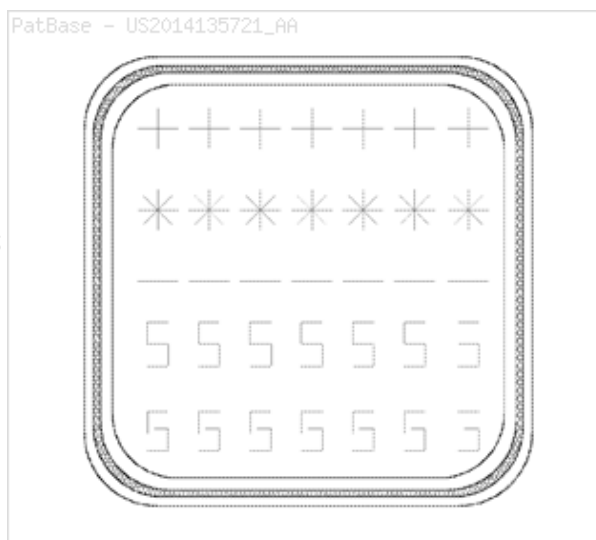
International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 (Advanced/Invention)

CPC: A61F13/2002 A61F13/00068 A61F13/00063 A61F13/00042 A61F2013/00748

European: A61F13/00A4B A61F13/00A6B

A61F13/00A6D K61F13/00L5C

US: 604/360 604/369



Family:

Publication number	Publication date	Application number	Application date
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EP2701646 A1	20140305	EP20120718955	20120426
US2014135721 AA	20140515	US20130062706	20131024
WO12146656 A1	20121101	WO2012EP57648	20120426

Priority:

DE201110002268 20110426 WO2012EP57648 20120426

Probable Assignee: RIESINGER

Assignee(s): (std): RIESINGER BIRGIT

Assignee(s): RIESINGER

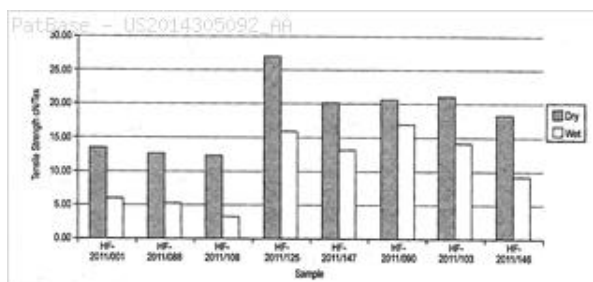
Inventor(s): (std): RIESINGER BIRGIT

Agent(s): MICHALSKI HUETTERMANN AND PARTNER PATENTANWALTE; MICHALSKI HUETTERMANN AND PARTNER ET AL

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

Title: YARN COMPRISING GEL-FORMING FILAMENTS OR FIBRES

Abstract: Source: US2014305092A A yarn comprising gel forming filaments or fibres particularly one used to make a woven or knitted wound dressing or other gelling fabric structure. The invention provides a yarn comprising a blend of from 30 percent to 100 percent by weight of gel-forming fibres and 0 percent to 70 percent by weight of textile fibres. Process for making the yarns are also described including those using rotor spinning.

**Classifications:**

International (IPC 8-9): A61F13/00 A61F13/02 A61L15/16 A61L15/42 A61L15/60 D01G15/00 D01H4/00 D02G3/02 D02G3/04 D02G3/44 D06B9/00 D06M13/21 D06M23/10 (Advanced/Invention)

CPC: A61L15/425 A61L15/60 D06M13/21 D06M23/10 D06M2101/06 A61F13/00021 A61F13/00063 A61F13/0209 A61F2013/00174 A61F2013/00229 A61F2013/00242 A61F2013/00536 A61F2013/0054 D10B2509/022 D04B21/12 D01G15/00 D02G3/04 D02G3/448 D02G3/02 A61F13/00012 D06B9/00 A61F13/00068 D01H4/00 Y10T428/2975

US: 19/236 19/98 28/168 428/398 57/244 57/252 57/404 57/6 604/319 604/368

Family:

Publication number	Publication date	Application number	Application date
AU2012343581 AA	20130606	AU20120343581	20121129
AU2012343583 AA	20130606	AU20120343583	20121129
CA2857564 AA	20140530	CA20122857564	20121129
CA2857565 AA	20140530	CA20122857565	20121129
CN104066458 A	20140924	CN201280068356	20121129
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CO7101228 A2	20141031	CO20140139575	20140627
CO7101229 A2	20141031	CO20140139580	20140627
EP2785387 A1	20141008	EP20120798813	20121129
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GB201120693 A0	20120111	GB20110020693	20111201
IN04837DN2014 A	20150320	IN2014DN04837	20140613
JP2015504347 T2	20150212	JP20140543971T	20121129
JP2015505911 T2	20150226	JP20140543972T	20121129
KR20140099301 A	20140811	KR20147017859	20121129
KR20140099520 A	20140812	KR20147017863	20121129
US2014305092 AA	20141016	US20120362050	20121129
US2014323999 AA	20141030	US20120362039	20121129
WO13079947 A1	20130606	WO2012GB52950	20121129
WO13079949 A1	20130606	WO2012GB52952	20121129

Priority:

GB20110020693 20111201 WO2012GB52950 20121129 WO2012GB52952 20121129

Probable Assignee: CONVATEC TECHNOLOGIES INC

Assignee(s): (std): BONNEFIN WAYNE ; CONVATEC TECHNOLOGIES INC ; PRENTICE AMELIA ; WROE SARAH

Assignee(s): CONVATEC TECHNOLOGIES INC250 - 3993 HOWARD HUGHES PARKWAYLAS VEGASNV89169-6754US ; CONVATEC TECHNOLOGIES INC3993 HOWARD HUGHES PARKWAYSUITE 250LAS VEGASNV89169-6754US

Inventor(s): (std): PRENTICE AMELIA ; BONNEFIN WAYNE ; WROE SARAH

Inventor(s): WROE SARAHGB ; BONNEFIN WAYNEGB ; PRENTICE AMELIAGB ; SARAH WROE ; WAYNE BONNEFIN ; AMELIA PRENTICE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; JUAN CARLOS URIBE RESTREPO; ZACCO DENMARK A S; YAMAZAKI HIROSHI; TANAKA MITSUO; OHATA YASUSHI; MAYS JULIE ET AL

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

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-139580

CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los booleanos utilizados)

Palabras clave utilizadas	Wound dressing, perforated, vacuum, support yarn, PVA, embroider, polyvinyl alcohol.
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA	A61F13/00; A61L15/42; A61L15/60; D02G3/04; D02G3/44; D06M13/21; D06M23/10.

BASES DE DATOS CONSULTADAS.

ESPACENET	Patentscope	Patbase	Espatentes
USPTO	Sciencedirect		

INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)

Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
WIPO	06/03/2013	wound care product, comprising textile ribbons with fibres having gel-forming properties, and fibres not having gel-forming properties US2010042034	1-8	Novedad		X
		Knitted wound dressings and method for making same WO9846818	1-8, 17, 18/ 9-12	Novedad/ Nivel inventivo	X	
		Open end spun, cotton/rayon blended yarn US2002129596	9-12	Nivel inventivo		X
		Wound dressings and materials suitable for use therein WO0001425	1-8, 14- 18/13	Novedad/ Nivel inventivo		X
		E Karamuk ET AL: “TISSUPOR: Development of a structured wound dressing based on a textile composite functionalized by embroidery technology”	13	Nivel inventivo		X
		Absorptive fabric WO0123653	1-8, 14-18	Novedad		X
		Yarns and wound dressings containing the same WO 1999064080	1-8, 17, 18	Novedad		X

DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.

Cellulosic fibres	WO9312275
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Wound dressing material WO2007003905

Wound dressings for vacuum therapy WO2005123170

Vacuum therapy and cleansing dressing for wounds US6752794

Vacuum wound dressing WO2006052839
Surgical dressings US3870041
Wound dressing with a discontinuous contact layer surface US 8710290
Vacuum assisted wound dressing US2011172615
Negative Pressure Wound Therapy Device US2010268198
Apparatus for aspirating, irrigating and cleansing wounds US2006155260
hydrogel wound dressing and its method of preparation US2009297587
Growth stimulating wound dressing with improved contact surfaces US 7951124
Wound dressings for vacuum therapy US2007225663
Process for stiffening a textile fabric EP0525062

Espacenet - Description x WO/9312275-Des-ies x WO/9312275-Claims-ies x WO/9312275-Abstr-ies x

[worldwide.espacenet.com/publicationDetails/description?CC=WO&NR=9312275A1&KC=A1&FT=D&ND=&date=19930624&DB=&locale=en_EP](#)



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WO9312275 (A1)

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INFADOC patent family

Description: WO9312275 (A1) — 1993-06-24
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CELLULOSE FIBRES
Description of WO9312275 (A1)

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[US687088 \(B2\)](#) [BR9206900 \(A\)](#) [CA2126261 \(A1\)](#) [CZ9401367 \(A3\)](#) [DE689227318 \(T2\)](#) [DK0616650 \(T3\)](#)
[EP0616650 \(B1\)](#) [ES9215323 \(T3\)](#) [FI103813 \(B\)](#) [JP931775594 \(B2\)](#) [KR100219983 \(B1\)](#) [MX3006821 \(B1\)](#) [NZ446174 \(A\)](#)
[RU2107118 \(C1\)](#) [SK99194 \(A3\)](#) [US6711083 \(A\)](#)

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CELLULOSE FIBRES
Field of the invention
This invention relates to cellulosic fibres having high absorbency for aqueous fluids. Such fibres are used in absorbent personal products, such as disposable diapers, tampons, sanitary napkins and incontinence pads, and in absorbent wipes, and may also be used as part of the fibre content in moulded absorbent articles. Absorbency of cellulosic fibres can be increased by incorporating highly absorbent chemicals in the fibres or by chemical modification of the cellulose itself. The incorporation of highly absorbent chemicals has the risk that the chemicals may be released from the fibres. The present invention is concerned with chemically modified cellulosic fibres, in particular carboxymethylated cellulose fibres.

Background art
Carboxymethyl cellulose in powder form is well known commercially as a thickener. It is produced by reaction of cellulose pulp with a strong alkali such as sodium hydroxide and monochloroacetic acid or a salt thereof. There have been several suggestions for the production of carboxymethyl cellulose fibres but these have not been widely used commercially. Documents describing the production of carboxymethyl cellulose fibres are GB-A-2220881, GB-A2094692, US-A-3731680, US-A-1738714, JP-A-48-55993, JP-A56-15458, JP-A-3-925 and JP-A-3-269144, and articles in J.

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WO2007003905 (A1)

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Bibliographic data: WO2007003905 (A1) — 2007-01-11

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WOUND DRESSING MATERIAL

Page bookmark WO2007003905 (A1) - WOUND DRESSING MATERIAL

Inventor(s): GRIFFITHS BRYAN [GB]; GLADMAN JUNE MICHAELA [GB] ±

Applicant(s): SQUIBB BRISTOL MYERS CO [US]; GRIFFITHS BRYAN [GB]; GLADMAN JUNE MICHAELA [GB] ±

Classification: A61F13/00; A61F13/02; A61L15/28; A61L15/60; D04H1/425; D04H1/426; D04H1/46; D04H1/492; D04H1/52; D04H3/08; D04H3/11

- international: A61F13/00; A61F13/02; A61L15/28; A61L15/60; D04H1/425; D04H1/426; D04H1/46; D04H1/492; D04H1/52; D04H3/08; D04H3/11; A61F2013/00157; A61F2013/00242; A61F2013/00531; A61F2013/00719; Y10T442/654; Y10T442/655; Y10T442/656; Y10T442/657; Y10T442/662; Y10T442/664; Y10T442/682

- cooperative: A61F13/00987; A61F13/0273; A61L15/28; A61L15/60; D04H1/425; D04H1/426; D04H1/46; D04H1/492; D04H1/52; D04H3/08; D04H3/11; A61F2013/00157; A61F2013/00242; A61F2013/00531; A61F2013/00719; Y10T442/654; Y10T442/655; Y10T442/656; Y10T442/657; Y10T442/662; Y10T442/664; Y10T442/682

Application number: WO20060802425 20060630

Priority number(s): GB20050013552 20050701

Also published as: US2014251194 (A1) US2007042024 (A1) US8691266 (B2) PT1904011 (E) N7564778 (A) + more

Abstract of WO2007003905 (A1)

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A material for use as a wound dressing, the material being in the form of a roll and comprising gel forming fibres, the material having lines of longitudinal stitching



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WO2005123170 (A1)

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Bibliographic data: WO2005123170 (A1) — 2005-12-29

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WOUND DRESSINGS FOR VACUUM THERAPY

Page bookmark WO2005123170 (A1) - WOUND DRESSINGS FOR VACUUM THERAPY

Inventor(s): WATT PAUL WILLIAM [GB]; GREGORY SARA JAYNE [GB]; TROTTER PATRICK JOHN [GB]; SILCOCK DEREK WALTER [GB]; MARSDEN DONALD CHRISTOPHER [GB] ±

Applicant(s): ETHICON INC [US]; WATT PAUL WILLIAM [GB]; GREGORY SARA JAYNE [GB]; TROTTER PATRICK JOHN [GB]; SILCOCK DEREK WALTER [GB]; MARSDEN DONALD CHRISTOPHER [GB] ±

Classification: A61F13/00; A61F13/02; A61M1/00; A61M27/00; (IPC-1:7) A61F13/00; A61M27/00

- international: A61F13/00; A61F13/02; A61M1/0088; A61M1/0092; A61M27/00; A61F2013/00165; A61F2013/0017; A61F2013/00535; A61F2013/00641

- cooperative: A61F13/02; A61M1/0088; A61M1/0092; A61M27/00; A61F2013/00165; A61F2013/0017; A61F2013/00535; A61F2013/00641

Application number: WO20050802423 20050620

Priority number(s): GB20040013867 20040621

Also published as: GB2415382 (A) EP1758637 (A1) EP1758637 (B1) ES2380027 (T3) US2007226663 (A1)

Abstract of WO2005123170 (A1)

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A wound dressing for vacuum therapy comprising: a cover configured for placement over the wound to maintain a reduced pressure over the wound and adapted for communication with a source of vacuum, and a screen structure for placement between the cover and the wound, wherein the screen structure is adapted to remove or inactivate undesirable components from the wound environment and/or to concentrate desirable components present in the wound environment. Also provided are kits for the assembly of such wound dressings, and systems comprising the wound dressings in combination with a source of vacuum.

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WO/084818 (A1) → US6752794 (B2)

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Claims: US6752794 (B2) — 2004-06-22

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Vacuum therapy and cleansing dressing for wounds

Claims of US6752794 (B2)

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CA2430313 (A1) EP1339366 (B1) WO0243634 (A2) EP2801388 (A1)

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Original claims Claims tree

The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.

1. A thin, flexible member for use in a vacuum bandage connected to a vacuum source and for use with a wound having a wound surface, the member comprising:
a wound contacting surface adapted to be in contact with and generally conform to the wound surface,
a plurality of discrete holes formed in the wound contacting surface,
a port configured to communicate with the vacuum source, and
communicating means from the holes to the port, the member being formed from a generally non-porous material.

2. The member of claim 1, wherein the communicating means comprises a distinct passageway between each hole and the port.

3. The member of claim 2, wherein the member includes a wound contacting layer having channels formed therein and a cover coupled to the wound contacting layer, and wherein the cover cooperates with the channels in the wound contacting layer to define the distinct passageways.

worldwide.espacenet.com/publicationDetails/claims?CC=US&NR=6752794&KC=B2&FT=D&ND=...he member of claim 3, further including a boss positioned near the port of the cover to prevent an upper surface of the wound contacting

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Espacenet - Claims x 2006052839-Claims-es x 2006052839-Desc-es x 2006052839-Abst-es

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WO/0212275 (A1) → WO2006052839 (A2)

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Claims: WO2006052839 (A2) — 2006-05-18

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VACUUM WOUND DRESSING

Claims of WO2006052839 (A2)

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CA2586437 (A1) EP2883555 (A2) JP2008518726 (A1) US2006100594 (A1) CA2849596 (A1) US2012065502 (A1)

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Original claims Claims tree

The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.

What is claimed:

1. A vacuum wound dressing for covering a wound bed comprising: a wound contact layer comprising a fibrous blend or fibrous material that forms a cohesive gel when wetted by wound exudate; a source of vacuum situated to be separated from the wound bed by the wound contact layer; and a vacuum sealing layer covering the wound contact layer and adapted to retain relative vacuum in the wound contact layer, wherein (i) the dressing is essentially missing a non-gelling, foam layer in which the source of vacuum is situated or (ii) the vacuum sealing layer comprises as an outer layer a foam layer.

2. The vacuum wound dressing of claim 1, further comprising: a source of irrigating fluid situated to deliver irrigating fluid to the wound bed.

3. The vacuum wound dressing of claim 1, wherein (i) the dressing is essentially missing a non-gelling, foam layer in which the source of vacuum is situated.

worldwide.espacenet.com/publicationDetails/claims?CC=WO&NR=2006052839A2&KC=A2&FT=...he vacuum wound dressing of claim 3, further comprising: a source of irrigating fluid situated to deliver irrigating fluid to the wound bed.

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Espacenet - Claims

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Claims: US3870041 (A) — 1975-03-11

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SURGICAL DRESSINGS

Claims of US3870041 (A)

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Original claims Claims tree

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I claim:

1. An improved surgical or wound dressing of the kind comprising a backing strip one side of which has an adhesive facing, a resilient absorbent pad on said one side of the backing strip, and a means for contacting and conforming to the wound surface comprising a covering layer overlying the absorbent pad of a readily stretchable film of elastomeric material which has a thickness not greater than 0.010 inch and a means for permitting wound scab and exudate from a wound to which the dressing is applied to be readily passed there through comprising deformable spaced perforations in said elastomeric covering material layer.
2. A dressing as claimed in claim 1 wherein the thickness of the film is in the range 0.0005 to 0.003 inch.
3. A dressing as claimed in claim 1 wherein the edges of the film extend beyond the absorbent pad and adhere to the adhesive facing to hold the film in position over the pad.
4. A dressing as claimed in claim 1 wherein the film is made of gutta percha or gutta percha like material.
5. A dressing as claimed in claim 1 wherein the film is made of polychloroprene or polychloroprene compounded with other elastomers and/or fillers.
6. A dressing as claimed in claim 1 wherein the film is made of trans-polyisoprene or trans-polyisoprene compounded with other elastomers and/or fillers.

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Wound dressing with a discontinuous contact layer surface
US 8710290 B2

RESUMEN

A therapeutic device for promoting the healing of a wound in a mammal is disclosed. An exemplary device comprises a permeable structure having a plurality of depressions formed in a surface thereof. In use, the surface having the depressions is disposed adjacent a surface of the wound. A method of manufacturing a therapeutic device for promoting the healing of a wound in a mammal comprising the steps of providing a permeable substrate, and forming a plurality of depressions into a surface of the permeable substrate to provide the therapeutic device. A method of treating a wound comprises: providing a permeable structure comprising a plurality of randomly disposed fibers and having i) a plurality of wound surface contact elements disposed between end portions of the structure, and ii) a plurality of voids defined by the contact elements; and applying the permeable structure to at least one surface of the wound.

IMÁGENES (8)

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RECLAMACIONES (20)

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CROSS-REFERENCE TO RELATED APPLICATIONS
This application is a U.S. National Phase of the PCT International Application No. PCT/GB2008/051088 filed on Nov. 20, 2008, designating the United States and published on May 28, 2009 as WO 2009/066104, which claims priority to Great Britain Patent Application No. 0722820.8, filed Nov. 21, 2007. The disclosure of these prior applications is incorporated by reference in their entirety and should be considered a part of this specification.

BACKGROUND OF THE INVENTION

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RELATED APPLICATIONS
[0001] This application claims priority to U.S. Provisional Application No. 61/212,947 filed on Apr. 17, 2009, the entirety of which is incorporated herein.

TECHNICAL FIELD
[0002] The present invention relates, in general, to a device and method for wound therapy that is capable of treating a variety of chronic and acute wound types, including, but not limited to, infection wounds, venous ulcers, diabetic ulcers, burn wounds, post amputation wounds, surgical wounds, and the like. Specifically, the present disclosure is related to wound treatment devices for a wound, for example, on a foot and methods that utilize a negative pressure therapy device for treatment of same.

BACKGROUND
[0003] Negative pressure therapy has been one method used for the treatment of a variety of wounds by practitioners in the art. Conventional negative pressure therapy devices are generally large in size and often require the use of complicated equipment such as suction pumps, vacuum pumps and complex electronic controllers. Additionally, U.S. Patent Pre-Grant Publication Nos. 2007/0265585 and 2007/0265586, the entire contents of which are herein incorporated by reference, also disclose negative pressure therapy devices.

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