

**Search query (2):** [SP]: wound treatment method and apparatus a wound treatment method capable of promoting the treatment of a wound is provided. the wound treatment method comprising: placing a foam dressing at a wound site sealing the wound site by attaching a film dressing to the skin adjacent to the wound site lowering pressure in a sealed space, which is formed between the film dressing and the wound site, to a target negative pressure level by supplying negative pressure generated by a negative pressure generation unit to the sealed space maintaining the pressure in the sealed space at the target negative pressure level for a first setting period stopping the supply of the negative pressure for a second setting period, which follows the first setting period and injecting a medication into the wound site within the second setting period.

**Results:** 64

#### Search history

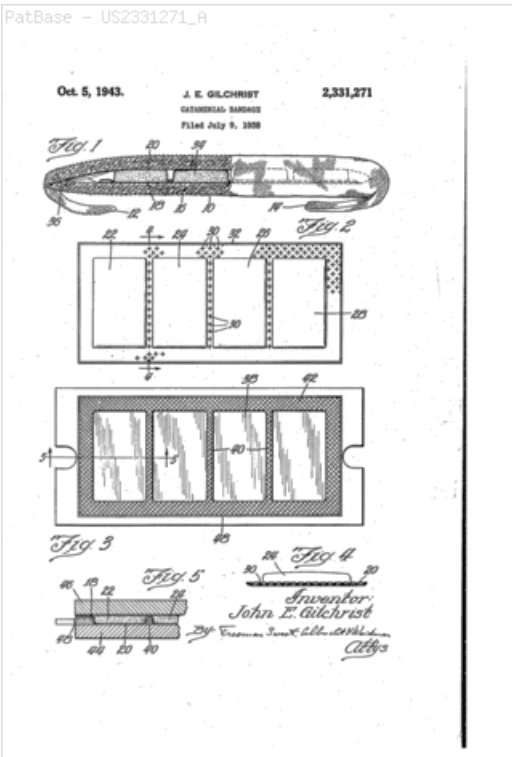
Search PN=(WO/2016/143997) (Results 1)

1:

Search [SP]: wound treatment method and apparatus a wound treatment method capable of promoting the treatment of a wound is provided. the wound treatment method comprising: placing a foam dressing at a wound site sealing the wound site by attaching a film dressing to the skin adjacent to the wound site lowering pressure in a sealed space, which is formed between the film dressing and the wound site, to a target negative pressure level by supplying negative pressure generated by a negative pressure generation unit to the sealed space maintaining the pressure in the sealed space at the target negative pressure level for a first setting period stopping the supply of the negative pressure for a second setting period, which follows the first setting period and injecting a medication into the wound site within the second setting period. (Results 64)

Title: CATAMENIAL BANDAGE

Classifications:  
International (IPC 8-9): A61F13/15 (Advanced/Invention);  
A61F13/15 (Core/Invention)  
International (IPC 1-7): A61F5/03  
CPC: A61F13/5323  
European: A61F13/532B  
US: 604/368 604/375



Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2331271 A        | 19431005         | US19380218307      | 19380709         |

Priority:

US19380218307 19380709

Probable Assignee:

GILCHRIST JOHN E

Assignee(s): (std):

GILCHRIST JOHN E

Inventor(s): (std):

GILCHRIST JOHN E

**Title:** VACUUM THERAPY AND CLEANSING DRESSING FOR WOUNDS

**Abstract:** A bandage for use with a vacuum source includes a member to be placed in contact with a wound surface and a suction port associated with the member. The member is configured with passageways and/or spacers.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02 A61F13/06 A61F13/14

A61M1/00 A61M27/00 A61M35/00 (Advanced/Invention);

A61M3/00 A61M31/00 (Advanced/Non-invention);

A61F13/00 A61F13/06 A61F13/14 A61M1/00 A61M27/00 (Core/Invention)

**International (IPC 1-7):** A61F13/00 A61F13/15 A61F5/44 A61M1/00

A61M27/00

**CPC:** A61F13/00068 A61F13/0216 A61F2013/00174 A61F2013/00536

A61M1/0058 A61M1/0088 A61M1/0062 A61M1/008 A61M27/00

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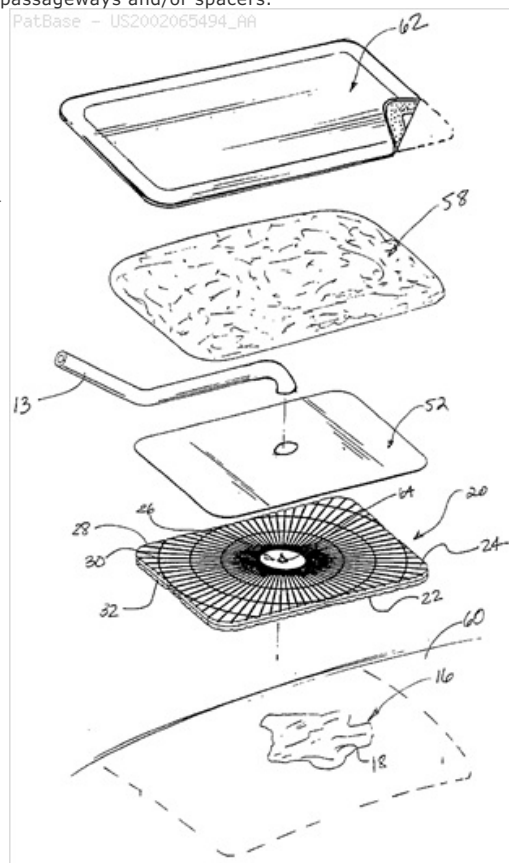
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604/319P 604/327 604/327S 604/343 604/355 604/355S 604/385.03

604/385.030S 604/543 604/543S



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU200217869 A5     | 20020611         | AU20020017869      | 20011127         |
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| EP1772160 A1       | 20070411         | EP20070001838      | 20021125         |
| EP1772160 B1       | 20090624         | EP20070001838      | 20021125         |
| EP1772160 B2       | 20170222         | EP20070001838      | 20021125         |
| EP2801388 A1       | 20141112         | EP20140172371      | 20011127         |
| EP2801388 B1       | 20160921         | EP20140172371      | 20011127         |
| US2002065494 AA    | 20020530         | US20000725352      | 20001129         |
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| US2015342786 AA | 20151203 | US20150737131 | 20150611 |
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| US8246592 BB    | 20120821 | US20090618411 | 20091113 |
| US10045886 BB   | 20180814 | US20150737131 | 20150611 |
| WO0243634 A2    | 20020606 | WO2001US44194 | 20011127 |
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| WO03045492 A1   | 20030605 | WO2002US37814 | 20021125 |

Priority:

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| US20000725352 | 20001129 | EP20010998292 | 20011127 | US20010994537 | 20011127 |
| EP20140172371 | 20011127 | WO2001US44194 | 20011127 | US20020144504 | 20020513 |
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Probable Assignee: KCI MEDICAL RESOURCES UNLIMITED CO

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**Assignee(s):** KCI MEDICAL RESOURCES GRAND CAYMAN ; RISK JAMES RJR ; RISK JAMES R ; RISK JAMES ROBERT ; RISK JAMES R JR

**Inventor(s):** (std): LOCKWOOD JEFFREY S ; PETROSENKO ROBERT ; RISK JAMES R ; RISK JAMES R JR ; RISK JAMES ROBERT ; RISK JR JAMES ROBERT ; RISK JR JAMES R ; RISK JAMES ROBERT JR ; LOCKWOOD ; RISK ; PETROSENKO

**Inventor(s):** LOCKWOOD JEFFREY ; JAMES ROBERT RISK JR ; ROBERT PETROSENKO ; JEFFREY S LOCKWOOD ; JAMES ROBERT JR RISK ; RISK JAMES ; RISK JR ; RISK JAMES ROBERT JR FOUNTAINTOWN ; RISK JAMES RJR ; PETROSENKO ROBERT BATESVILLE ; LOCKWOOD JEFFREY S BATESVILLE

**Agent(s):** MACRAE AND CO; BORDEN LADNER GERVAIS LLP; OLSWANG GERMANY LLP; CORDINA KEVIN JOHN; FINDLAY ALICE ROSEMARY; BARNES AND THORNBURG; FULBRIGHT AND JAWORSKI LLP; FULBRIGHT AND JAWORSKI

**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:** DEVICE FOR AND METHOD OF CONTROLLED ENZYMATIC REMOVAL AND RETRIEVAL OF TISSUE

**Abstract:** Methods, devices and pharmaceutical compositions for the controlled, non-surgical removal and retrieval of cells from a plurality of skin lesions and tissue surfaces are disclosed. A synergistic effect of proteolytic digestion of the intracellular matrix and "stripping" flow is achieved by treating a defined area with a controlled, continuous stream of proteolytic enzyme solution, causing gentle but effective tissue erosion. Isolated cells from the skin lesion and/or tissue surface may be collected from the protease solution stream for histological analysis and/or cell culture, affording a method of "enzymatic biopsy". The protease solution may be supplemented with anesthetics, coagulants, anticoagulants and antibiotics to decrease the discomfort, erythema, bleeding, risk of infection and scarring traditionally associated with surgical treatment of skin lesions. Furthermore, in the present invention delivery of precise levels of catalytic activity is ensured by controlled activation of stable, inactivated enzyme stock solutions and powders shortly prior to application.

**Classifications:**

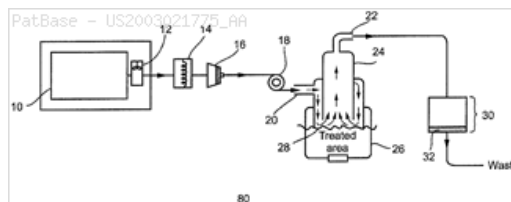
**International (IPC 8-9):** A61B10/00 A61B10/02 A61B17/00 A61B17/54 A61K38/48 A61K38/49 A61L15/16 A61L31/00 A61M1/00 A61M27/00 A61M3/00 A61M3/02 A61M35/00 A61M37/00 A61N1/30 C12M1/00 C12N5/071 (Advanced/Invention); A61B17/00 A61B17/22 A61B17/34 (Advanced/Non-invention); A61B10/00 A61B10/02 A61B17/54 A61K38/43 A61M27/00 A61M3/00 A61M35/00 C12N5/071 (Core/Invention); A61B17/00 A61B17/22 (Core/Non-invention); A61K A61M (Subclass/Invention)

**International (IPC 1-7):** A61B10/00 A61B17/54 A61K38/48 A61M27/00 A61M3/02 A61M35/00 C12N5/06

**CPC:** A61M3/0258 A61B10/0035 A61B10/02 A61B17/545 A61B2017/00761 A61B2017/00769 A61B2017/00774 A61B2017/22082 A61B2017/3411 A61K38/48 A61K38/4886 A61M1/0088 A61M3/0241 A61M3/0283 A61M3/0287 C12M45/09 C12N5/0629 C12N2509/00 A61M27/00

**European:** A61B10/00C A61B10/02 A61B17/54P A61K38/48 A61K38/48K1 A61K38/48K36 A61K38/48K7 A61K38/48L A61K38/48M A61K38/48N A61K38/49 A61M1/00T6 A61M27/00 A61M3/02D8B A61M3/02H2 A61M3/02H4 A61M35/00 C12M3/08 C12M45/09 C12N5/06B9K K61B17/00R2R K61B17/00R2T K61B17/00R2W K61B17/22S K61B17/34D1P K61M3/02D4 M12N509/00

**US:** 1/1 424/94.63 424/94.630P 604/1 604/19 604/1S 604/290 604/290P 604/305 604/305S 604/39 604/39P 604/93.01 604/93.010S

**Family:**

| Publication number | Publication date | Application number | Application date |
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| CA2554330 AA       | 20060725         | CA20052554330      | 20050127         |
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| EP1720586 A1       | 20061115         | EP20050703144      | 20050127         |
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| EP1720586 B8       | 20121003         | EP20050703144      | 20050127         |
| ES2393575 T3       | 20121226         | ES20050703144T     | 20050127         |
| IL160090 A0        | 20040620         | IL20020160090      | 20020716         |
| IL160090 A1        | 20080708         | IL20020160090      | 20020716         |
| IL176972 A0        | 20061210         | IL20060176972      | 20060720         |
| IL176972 A1        | 20101230         | IL20050176972      | 20050127         |
| JP2007519465 T2    | 20070719         | JP20060550490T     | 20050127         |
| JP4904166 B2       | 20120328         | JP20060550490T     | 20050127         |
| KR20070057699 A    | 20070607         | KR200607016325     | 20060814         |
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| US2004186421 AA    | 20040923         | US20040768749      | 20040127         |
| US2007041960 AA    | 20070222         | US20060493381      | 20060725         |
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| US9155828 BB       | 20151013         | US20110184627      | 20110718         |
| WO03011369 A1      | 20030213         | WO2002IL00572      | 20020716         |
| WO05070480 A1      | 20050804         | WO2005IL00101      | 20050127         |
| ZA200606459 A      | 20080130         | ZA20060006459      | 20050127         |

**Priority:**

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**Probable Assignee:** ENZYSURGE LTD

**Assignee(s):** (std): AMIHAY FREEMAN ; BE ERI LIPPERMAN MICHAL ; BEERI LIPPERMAN MICHAL ; ENZYSURGE LTD ; ERAN HIRSZOWICZ ; RAMOT AT TEL AVIV UNIV L ; MICHAL BE ERI LIPPERMAN ; ERI LIPPERMAN MICHAL BE ; UNIV RAMOT ; ZYSURGE LTD ; FREEMAN AMIHAY ; HIRSZOWICZ ERAN

**Assignee(s):** RAMOT AT TEL AVIV UNIVERSITY LTD ; RAMOT AT TEL AVIV UNIV ; RAMOT UNIV AUTHORITY FOR APPLIED RESEARCH AMP A ; RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AN ; RAMOT UNIV ; RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL DEVELOPMENT LTD ; RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH and ; RAMOT UNIV AUTHORITY FOR APPLIED RESEARCH

AND INDUSTRIAL DEVELOPMENT LTD ; RAMOT AT TEL AVIV UNIVERSITY LTD ENZYSURGE LTD ; RAMOT AT TEL AVIV UNIV LTD ENZYSURGE LTD ; MICHAL BEERI LIPPERMAN ; RAMOT UNIV AUTHORITY FOR APPLIED RESEARCH AND INDU ; RAMOT UNIV AUTHORITY FOR APPLIED RESEARCH AND ; RAMOT AT TEL AVIV UNIV LTD

**Inventor(s):** (std): AMIHAY FREEMAN ; BE ERI LIPPERMAN MICHAL ; ERAN HIRSZOWICZ ; FREEMAN AMIHAY ; HIRSZOWICZ ERAN ; MICHAL BE ERI LIPPERMAN ; BEERI LIPPERMAN MICHAL

**Inventor(s):** MICHAL BEERI LIPPERMAN ; BE'ERI LIPPERMAN MICHAL ; FREEMAN AMIHAY HIRSZOWICZ ERAN BE ERI ; FREEMAN AMIHAY HIRSZOWICZ ERAN BE ERI LIPPERMAN MI ; FREEMAN AMIHAY HIRSZOWICZ ERAN BE ERI LIPPERMAN MICHAL

**Agent(s):** FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; RIDOUT AND MAYBEE LLP; BECKER KURIG STRAUS; IZQUIERDO JOSE; GE EHRlich 1995 LTD; WEBB AND CO; WINSTON AND STRAWN LLP, PATENT DEPARTMENT; WINSTON AND STRAWN LLP PATENT DEPARTMENT; WINSTON AND STRAWN 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:** APPARATUS FOR ASPIRATING, IRRIGATING AND CLEANSING WOUNDS

**Abstract:** 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:**

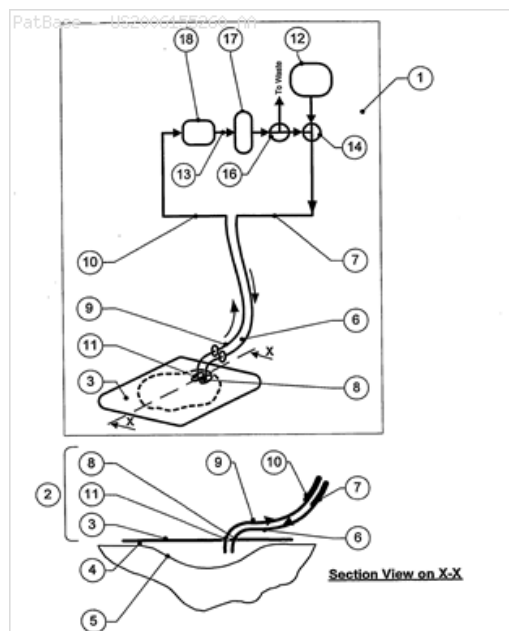
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**International (IPC 1-7):** A61M1/00 A61M27/00

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**US:** 1/1 604/27 604/28 604/290 604/290P 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 |
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| AT450289 E         | 20091215         | AT20030809377T     | 20031028         |
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| EP2305341 A1       | 20110406         | EP20100010687      | 20031028         |
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| JP4414338 B2       | 20100210         | JP20040546200T     | 20031028         |
| KR20050075367 A    | 20050720         | KR20057007130      | 20031028         |
| US2006155260 AA    | 20060713         | US20030533275      | 20031028         |
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| US2011251567 AA    | 20111013         | US20100981337      | 20101229         |

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| US2017367894 AA | 20171228 | US20170647111 | 20170711 |
| US2018193200 AA | 20180712 | US20180864586 | 20180108 |
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| US8398614 BB    | 20130319 | US20090416829 | 20090401 |
| US8535296 BB    | 20130917 | US20100981337 | 20101229 |
| US8834451 BB    | 20140916 | US20120363320 | 20120131 |
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**Priority:**

|                        |                        |                        |
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| US20100981337 20101229 | US20120363320 20120131 | AU20120201095 20120224 |
| US20120627473 20120926 | US20140485633 20140912 | US20140584274 20141229 |
| US20140585786 20141230 | US20170647111 20170711 | US20180864586 20180108 |

**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 M ; WALKER TINA MICHELLE

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

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

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**Agent(s):** DAVIES COLLISON CAVE; GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; 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

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

**International (IPC 8-9):** A61F13/15 A61F13/472 A61F13/49 A61F13/511  
A61F13/514 A61F13/515 A61F13/53 A61F13/534 A61F13/539  
A61F5/44 (Advanced/Invention);  
A61F13/15 A61F5/44 (Core/Invention)

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

**CPC:** Y10T428/24273 A61F13/53704 A61F13/4751 A61F13/4755

A61F13/4758 A61F13/51474 A61F13/532 A61F13/5323 A61F13/53409

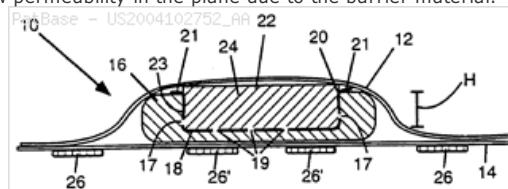
A61F13/535 A61F13/536 A61F13/53743 A61F13/53752 A61F13/5376

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**European:** A61F13/475A A61F13/475A2 A61F13/475B A61F13/514C A61F13/532 A61F13/532B A61F13/534B A61F13/535

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



| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2004102752 AA    | 20040527         | US20030662251      | 20030915         |
| US7429689 BB       | 20080930         | US20030662251      | 20030915         |

## US19980165875 19981002 US20030662251 20030915

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

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

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

**Agent(s):** ARMSTRONG TEASDALE LLP

**Title:** ELECTRICALLY INSULATED SURGICAL PROBING TOOL

**Abstract:** A surgical tool for probing bone tissue includes an elongate member coupled to a handle assembly. The handle assembly is electrically coupled to an electrical signal source. The surgical tool includes an electrically conductive portion in communication with an un-insulated distal end of the elongate member, and insulated portion extending from the tip along the elongate member and handle assembly.

**Classifications:**

**International (IPC 8-9):** A61B17/00 A61B17/17 A61B17/22 A61B17/34 A61B17/56 A61B17/70 A61B18/12 A61B5/05 A61B5/053 A61F13/00 A61F13/02 A61K38/48 A61K45/00 A61K48/00 A61L15/00 A61L15/44 A61M1/00 A61M1/14 A61M1/16 A61M1/30 A61M27/00 A61M3/00 A61M3/02 A61M31/00 A61M35/00 A61N1/36 A61P17/02 B01D61/00 B01D71/00 (Advanced/Invention); A61F13/00 A61K35/12 A61K35/36 A61K45/00 A61M1/00 A61M1/14 A61M1/16 A61M27/00 A61M3/00 A61M3/02 A61P17/02 (Advanced/Non-invention); A61B17/00 A61B17/16 A61B17/22 A61B17/34 A61B17/56 A61B18/12 A61B5/05 A61F13/00 A61F13/02 A61K38/43 A61K48/00 A61L15/00 A61L15/16 A61M1/00 A61M1/14 A61M1/16 A61M27/00 A61M3/00 A61M31/00 A61M35/00 A61N1/36 B01D61/00 B01D71/00 (Core/Invention); A61F13/00 A61K35/12 A61K35/36 A61K45/00 A61M1/16 A61M27/00 A61P17/00 (Core/Non-invention); A61F A61M B01D (Subclass/Invention)

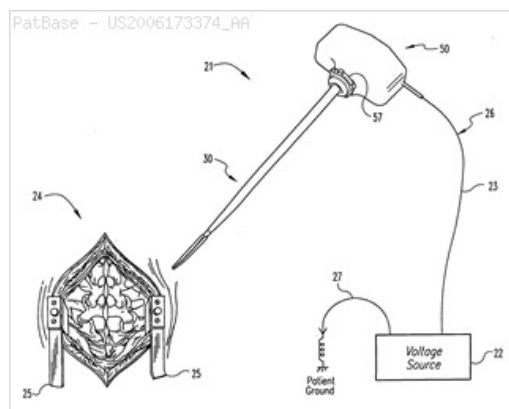
**International (IPC 1-7):** A61B5/05 A61F13/00 A61M1/00 A61M27/00 A61M3/02

**CPC:** A61F13/00068 A61M1/0058 A61M3/0229 A61B17/7092

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**European:** A61B17/70T21 A61M1/00K A61M1/00T2 A61M1/00T6 A61M27/00 A61M3/02 A61M3/02C K61B17/00C1 K61M1/00T2 K61M1/00T6V K61M1/16R K61M202/04E2 K61M202/04E4 K61M202/04E9 K61M202/04N21 K61M27/00 K61M3/02H2 K61M3/02H4

**US:** 424/445 424/445P 424/94.64 424/94.64S 514/44 514/44.00RS 514/44R 600/546 600/546S 600/547 600/547P 602/42 602/42S 604/19 604/289 604/289S 604/290 604/290P 604/304 604/305 604/305S 604/313 604/313P 604/313S 604/315 604/315P 604/317 604/319 604/35 604/48 604/500 604/500S 604/540 604/543 604/543S



**Family:**

| Publication number | Publication date | Application number | Application date |
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**Priority:**

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| US20050047357 | 20050131 | EP20050738218 | 20050427 | WO2005GB01612 | 20050427 |
| GB20050018804 | 20050915 | GB20050018825 | 20050915 | GB20050018826 | 20050915 |
| EP20060719992 | 20060131 | US20060066730 | 20060131 | WO2006US03425 | 20060131 |
| EP20060779437 | 20060915 | WO2006GB03421 | 20060915 | WO2006GB03425 | 20060915 |
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| US20080066730 | 20081009 | US20080066578 | 20081010 | US20080599728 | 20081103 |
| US20100802840 | 20100615 | US20100976935 | 20101222 | US20140311182 | 20140620 |

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): BLOTT PATRICK LEWIS ; FELTON SHARONDA ; FELTON SHARONDA T ; GREEN CLARE ; GREENER BRYAN ; HARTWELL EDWARD YERBURY ; LEE WEBB JULIAN ; NICOLINI DEREK ; MARTIN ROBIN PAUL ; SMITH AND NEPHEW ; WALKER TINA MICHELLE ; NEUBARDT SETH L ; SDGI HOLDINGS INC ; WARSAW ORTHOPEDIC INC

**Assignee(s):** WARSAW ORTHOPEDIC INC WARSAW ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW PLC15 ADAM STREETWC2N 6LALONDONGB ; SMITH AND NEPHEW PUBLIC LIMITED COMPANY ; SMITH AND NEPHEW PLC

**Inventor(s):** (std): FELTON SHARONDA ; FELTON SHARONDA T ; YERBURY HARTWELL EDWARD ; NICOLINI DEREK ; MARTIN ROBIN PAUL ; LEE WEBB JULIAN ; HARTWELL EDWARD YERBURY ; GREENER BRYAN ; GREEN CLARE ; BLOTT PATRICK LEWIS ; WALKER TINA MICHELLE ; PAUL MARTIN ROBIN ; NEUBARDT SETH L ; CLAR BLOTT PATRICK LEWIS GREEN ; LEWIS BLOTT PATRICK ; HARTWELL EDWARD ; EDWARD HARTWELL ; DEREK NICOLINI ; CLARE GREEN ; BRYAN GREENER ; JULIAN LEE WEBB ; MARTIN ROBIN P ; HARTWELL EDWARD Y ; BLOTT PATRICK L

**Inventor(s):** HARTWELL EDWARD YERBURYGB ; BLOTT PATRICK LEWISGB ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL EDWARDYERBURY LEE WEBB JULIAN NICOLINI DEREK GREEN CLARE MARTIN ROBIN PAUL ; LEE WEBB JULIANGB ; EDWARD YERBURY HARTWELL ; NEUBARDT SETH L WHITE PLAINS ; NICOLINI DEREK SOUTH CAVE ; PATRICK LEWIS BLOTT ; ROBIN PAUL MARTIN ; SETH L NEUBARDT ; SHARONDA T FELTON ; NICOLINI DEREKGB ; FELTON SHARONDA T CORDOVA ; HARTWELL EDWARD YERBURY BROUGH ; LEE WEBB JULIAN COPMANTHORPE ; MARTIN ROBIN ; NEUBARDT SETH ; BLOTT PATRICK ; BLOTT PATRICK LEWIS BARMBY MOOR ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL ; BLOTT PATRICK LEWIS GREENER BRYAN HARTWELL EDWARDY

**Agent(s):** GRIFFITH HACK ; FB RICE PTY LTD ; FB RICE ; DAVIES COLLISON CAVE ; MCFADDEN FINCHAM ; OSLER HOSKIN AND HARCOURT LLP ; BORDEN LADNER GERVAIS LLP ; SMART AND BIGGAR ; MURGITROYD AND CO ; WITTMANN HERNANDEZ PATENTANWAELE PARTNERSCHAFT MBB ; CONNORS MARTIN LH ; HUTCHINSON GLENN STANLEY ; CONNORS MARTIN L H ; ADCOCKS CLAIR ; DE ELZABURU ALBERTO ; ONO SHINJIRO ; KOBAYASHI YASUSHI ; TOMITA HIROYUKI ; CHIBA AKIO ; KRIEG DEVAULT LLP ; STITES AND

HARBISON PLLC; KNOBBE MARTENS OLSON AND BEAR LLP; MEDTRONIC,ATTN: NOREEN JOHNSON - IP  
LEGAL DEPARTMENT; MEDTRONIC ATTN NOREEN JOHNSON IP LEGAL DEPARTMENT

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK  
DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN  
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VC VN YU ZA ZM ZW

**Title:** WOUND CLEANSING APPARATUS IN-SITU

**Abstract:** 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 A61F15/00

A61F5/00 A61H33/00 A61L15/00 A61M1/00 A61M27/00 A61M3/00

A61M3/02 A61M35/00 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:** A61F13/0216 A61F13/0259 A61F2013/00357 A61M1/0088

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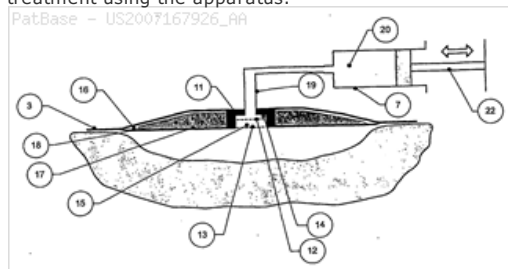
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**European:** A61M1/00K A61M1/00T2 A61M1/00T6 A61M3/02C K61M1/00H4 K61M1/00K2 K61M1/00P2 K61M1/00P4 K61M1/00T6P

K61M205/07A2 K61M205/10T K61M205/75B K61M205/82B K61M27/00 K61M35/00

**US:** 1/1 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 |
|--------------------|------------------|--------------------|------------------|
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| AU2004292383 BB    | 20100520         | AU20040292383      | 20041028         |
| CA2540878 AA       | 20050609         | CA20042540878      | 20041028         |
| CA2540878 C        | 20131001         | CA20042540878      | 20041028         |
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| US2017007753 AA    | 20170112         | US20160273071      | 20160922         |
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**Probable Assignee:** SMITH AND NEPHEW PLC

**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 AMP NEPHEW PLC ; SMITH AND NEPHEW ; SMITH AND NEPHEW PCL ; WALKER TINA MICHELLE

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

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

**Inventor(s):** NICOLINI DEREK SOUTH CAVEBROUGH ; PATRICK LEWIS BLOTT ; LEE WEBB JULIAN COPMANTHORPE ; LEE WEBB JULIAN COPMANTHORPEYORK ; HARTWELL EDWARD YERBURY BROUGH ; GREENER BRYAN ELVINGTON ; EDWARD YERBURY HARTWELL ; BLOTT PATRICK LEWIS BARMBY MOOR ; BLOTT PATRICK LEWIS BARMBY MOORYORK ; 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

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**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:** REDUCED PRESSURE WOUND CUPPING TREATMENT SYSTEM

**Abstract:** 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 A61F13/02 A61F13/15 A61F15/00 A61F5/00 A61F5/02 A61F5/048 A61M1/00 A61M27/00

A61M35/00 (Advanced/Invention);

A61F13/00 A61F5/00 A61L15/00 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 A61M2205/3334 A61M1/0001 A61M1/0011

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A61F5/048 A61M1/0072 A61M39/00 A61M1/0088 A61M1/0031

**European:** A61F5/048 A61M1/00A A61M1/00T6 K61M1/00A K61M1/00A5

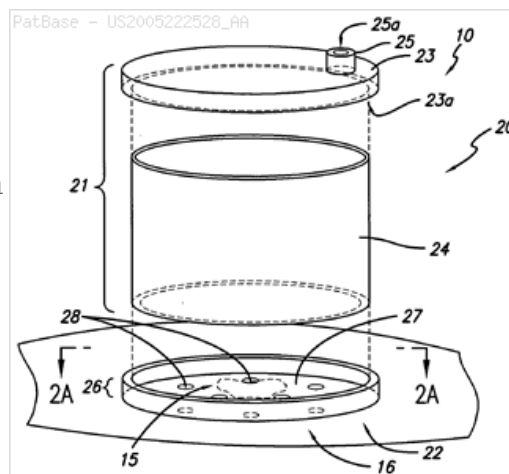
K61M1/00H12C K61M1/00H12D K61M1/00P4 K61M205/07A2

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604/304 604/305 604/305S 604/313 604/313P 604/314 604/315

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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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| US2017246359 AA    | 20170831         | US20170597878      | 20170517         |
| US2017258973 AA    | 20170914         | US20170607283      | 20170526         |
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**Priority:**

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|----------------|----------|----------------|----------|---------------|----------|
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| EP20110154569  | 20050519 | EP20160156316  | 20050519 | WO2005US17225 | 20050519 |
| US20100719715  | 20100308 | US20100719767  | 20100308 | US20100726161 | 20100317 |
| US20100832031  | 20100707 | US20100941390  | 20101108 | US20130859670 | 20130409 |
| US20130902446  | 20130524 | US20140446688  | 20140730 | US20150949624 | 20151123 |
| US20160992818  | 20160111 | EP20160156316  | 20160218 | US20170597878 | 20170517 |
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**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): BLUE SKY MEDICAL GROUP INC ; BLUESKY MEDICAL GROUP INC ; SMITH AND NEPHEW INC ; WESTON RICHARD S ; WESTON RICHARD SCOTT ; SMITH AND NEPHEW PLC

**Assignee(s):** BLUESKY MEDICAL GROUP INC MEMPHIS ; HUNTLEIGH HEALTHCARE FUNDING LLC ; JOHNSON TIM

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

**Agent(s):** FINLAYSON AND SINGLEHURST; UNO JENNIFER ELIZABETH HAYES; SMITH AND NEPHEW; 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:** DEVICE AND METHOD FOR WOUND THERAPY

**Abstract:** 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 A61F13/00 A61F13/02 A61F13/20 A61H7/00 A61L15/28 A61L15/42 A61L15/58 A61L15/60 A61M1/00 A61M27/00 (Advanced/Invention);

A61F13/00 A61F13/02 A61F13/15 A61M27/00 A61M39/02 B65D69/00 B65D71/00 (Advanced/Non-invention);

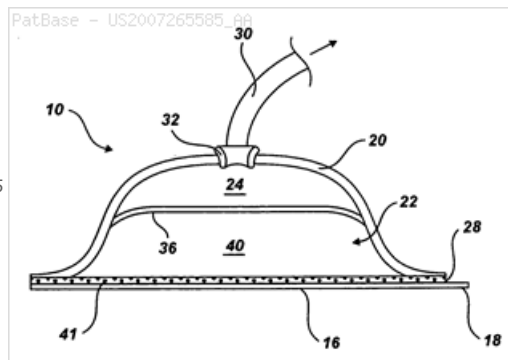
A61B17/00 A61H7/00 A61M1/00 A61M27/00 (Core/Invention)

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

**CPC:** A61M1/0015 A61M2205/7536 A61M1/0025 A61M27/00 A61M2205/15 A61M1/0049 A61M1/0088 A61M1/0052 A61M1/0096 A61M1/0035 A61F13/0216 A61F13/0206 A61F13/0213 A61F13/0243 A61L15/60 A61L15/425 A61L15/28 A61L15/58 A61M2205/7518 A61M2205/7509 A61M2205/13 A61M1/009 A61M1/0031

**European:** A61M1/00H12 A61M1/00T6 K61M1/00A7 K61M1/00H1 K61M1/00H12 K61M1/00H2 K61M1/00T6P K61M205/75D K61M27/00

**US:** 1/1 60/313 601/6 601/6S 602/42 602/43 602/46 604/304 604/305 604/306 604/307 604/313 604/313P 604/315 604/316 604/317 604/319 604/319P 604/541 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
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| JP4979765 B2       | 20120718         | JP20090509861T     | 20070510         |
| JP5144647 B2       | 20130213         | JP20090509851T     | 20070510         |
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| JP6035364 B2       | 20161130         | JP20150039985      | 20150302         |
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| US2010100063 AA | 20100422 | US20090592049 | 20091118 |
| US2014018753 AA | 20140116 | US20130912716 | 20130607 |
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**Priority:**

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| JP20090509851  | 20070510 | JP20120256689  | 20070510 | JP20150039985 | 20070510 |
| JP20090509851T | 20070510 | WO2007US11278  | 20070510 | WO2007US11321 | 20070510 |
| IN2008DN09654  | 20081119 | US20090592049  | 20091118 | AU20100202694 | 20100628 |
| AU20120258379  | 20121123 | US20130912716  | 20130607 | AU20150200966 | 20150226 |
| JP20150039985  | 20150302 | US20150920680  | 20151022 | US20160280778 | 20160929 |
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**Probable Assignee:** SMITH AND NEPHEW PLC

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

**Assignee(s):** CERAMATEC INC ; KALYPTO MEDICAL INC MENDOTA HEIGHTS ; SMITH AND NEPHEW INC ; SMITH AND NEPHEW PLC ; IASIS MEDICAL INC

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

**Inventor(s):** ERFINDER WIRD SPAETER GENANNT WERDEN ; ASHOK V JOSHI ; BHAVARAJU SAI WEST JORDAN ; GORDON JOHN ; JOSHI ASHOK V SALT LAKE CITY ; SAI BHAVARAJU ; TROY C DAYTON ; DAYTON TROY C SYRACUSE ; GORDON JOHN HOWARD SALT LAKE CITY ; HEISER JEREMY SALT LAKE CITY ; JEREMY HEISER ; JOHN HOWARD GORDON

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; GRIFFITH HACK; MCCARTHY TETRAULT LLP; OSTERTAG AND PARTNER PATENTANWAELTE MBB; SCHWANHAEUSSER GERNOT ET AL; SCHWANHAEUSSER GERNOT; DE PABLOS JULIO; FACTOR AND LAKE LTD; FACTOR AND LAKE; FACTOR INTELLECTUAL PROPERTY LAW GROUP LTD; KNOBBE MARTENS OLSON AND BEAR LLP

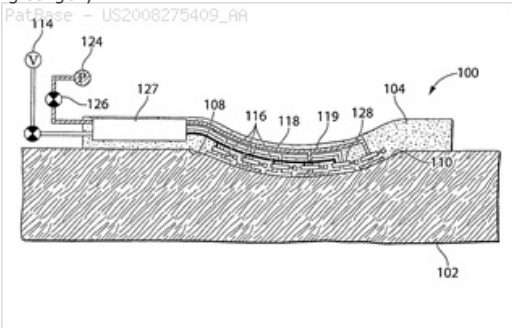
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Title: WOUND HEALING DEVICE

**Abstract:** Methods and devices transmit micromechanical forces locally on the millimeter to micron scale for promoting wound healing. Micromechanical forces can selectively be applied directly to tissue, in some embodiments, by using microchambers fluidically connected to microchannels. Each chamber, or in some cases, group of chambers, may be associated with a valve to control vacuum pressure, positive pressure, liquid delivery, and/or liquid removal from each chamber or group of chambers. Application of embodiments of the invention may shorten wound-healing time, reduce costs of therapy, enable restoration of functional tissue, and reduce the need for more invasive therapies, including surgery.

**Classifications:**

**International (IPC 8-9):** A61B17/00 A61F13/00 A61F2/02 A61F2/18 A61F2/82 A61K9/70 A61L27/00 A61M25/02 A61M27/00 A61M35/00 (Advanced/Invention); A61B17/00 A61F2/02 A61F2/18 A61F2/82 A61K9/70 A61L27/00 A61M25/02 A61M27/00 A61M35/00 (Core/Invention)  
**CPC:** A61F13/00068 A61M1/0088 A61F13/0203  
**European:** A61F13/02B A61M1/00T6  
**US:** 424/425 424/425S 604/304 604/304S 604/305 604/305P 604/306 604/307 604/308 604/311 604/313 604/315 604/317 604/540 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2008248261 AA    | 20081113         | AU20080248261      | 20080430         |
| CN101801311 A      | 20100811         | CN200880023109     | 20080430         |
| EP2152196 A1       | 20100217         | EP20080743415      | 20080430         |
| JP2010525873 T2    | 20100729         | JP20100506309T     | 20080430         |
| US2008275409 AA    | 20081106         | US20080112527      | 20080430         |
| US8057446 BB       | 20111115         | US20080112527      | 20080430         |
| WO08136998 A1      | 20081113         | WO2008US05560      | 20080430         |

**Priority:**

US20070927069P 20070501      US20080112527 20080430      WO2008US05560 20080430

**Probable Assignee:** BRIGHAM AND WOMEN S HOSPITAL INC

**Assignee(s):** (std): KANE BARTHOLOMEW J ; ORGILL DENNIS P ; BRIGHAM AND WOMENS HOSPITAL

**Assignee(s):** BRIGHAM AND WOMEN'S HOSPITAL INC ; BRIGHAM AND WOMEN S HOSPITAL INC ; THE BRIGHAM AND WOMEN S HOSPITAL INC ; US GOVERNMENT SECRETARY FOR ARMY

**Inventor(s):** (std): KANE BARTHOLOMEW J ; ORGILL DENNIS P

**Inventor(s):** BARTHOLOMEW J KANE ; DENNIS P ORGILL

**Agent(s):** PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; WAINWRIGHT JANE HELEN; WOLF GREENFIELD AND SACKS PC; LOCKHART HELEN C 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 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** APPARATUS AND METHOD FOR WOUND DIAGNOSIS

**Abstract:** A configurable scanner (1), adapted for contactless measurement of the depth and perimeter of a wound on a target body part (9), has a scan head (4), and a processor (3) for controlling a scanning procedure and analyzing the results. The scan head is translated along a substantially semicircular path (7) having a configurable radial distance from an imaginary axis, such that the imaginary axis is approximately coincident with an axis of the target (9). The scan head (4) projects a contour line having a calibrated length onto the target surface, and the processor (3) stores an image of the projected contour line captured by an image capturing device (11). The processor (3) analyzes a series of captured images to determine the coordinates in three axes of the projected contour line, creates therefrom a 3D model of the region of interest, and determines a depth and perimeter of the wound from the 3D model.

**Classifications:**

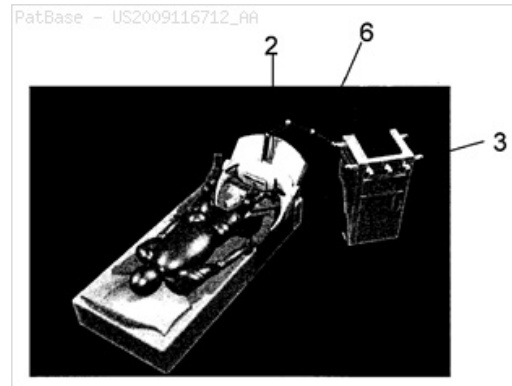
**International (IPC 8-9):** A61B5/00 A61B6/00 G01V8/00

G06K9/00 (Advanced/Invention);

A61B5/00 A61B6/00 G01V8/00 G06K9/00 (Core/Invention)

**CPC:** A61B5/1075 A61B5/445 A61B5/0064 A61B5/1079

**US:** 250/234 250/559.21 356/607 382/128 382/128P 600/477 600/477P



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2009116712 AA    | 20090507         | US20080263380      | 20081031         |
| US2010191126 AA    | 20100729         | US20100729129      | 20100322         |
| US7705291 BB       | 20100427         | US20080263380      | 20081031         |
| US7989757 BB       | 20110802         | US20100729129      | 20100322         |

**Priority:**

US20070985100P 20071102      US20080263380 20081031      US20100729129 20100322

**Probable Assignee:** WOUNDMATRIX INC

**Assignee(s):** (std): AL MOOSAWI OSAMA ; GEARY SEAN M ; WOUNDMATRIX INC

**Inventor(s):** (std): AL MOOSAWI OSAMA ; GEARY SEAN M

**Agent(s):** SONNENSCHN NATH AND ROSENTHAL LLP; SONNENSCHN NATH AND ROSENTHAL; SNR DENTON US LLP

**Title:** VACUUM ASSISTED WOUND DRESSING

**Abstract:** 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

A61M39/24 (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 A61M2205/7527 A61M27/00 A61F13/00063 A61M2205/7536

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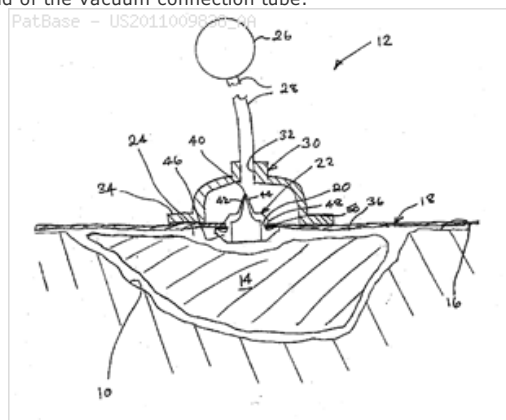
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**European:** A61F13/02 A61M1/00T6 K61F13/00L12H K61F13/00L1T

K61M1/00H12 K61M1/00T6P K61M205/75D K61M39/24

**US:** 1/1 604/313 604/317 604/319 604/319P 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2008327659 AA    | 20090528         | AU20080327659      | 20081120         |
| AU2008327659 BB    | 20140320         | AU20080327659      | 20081120         |
| AU2008327660 AA    | 20090528         | AU20080327660      | 20081120         |
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| AU2008327661 AA    | 20090528         | AU20080327661      | 20081120         |
| AU2008327661 BB    | 20140220         | AU20080327661      | 20081120         |
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| AU2014202740 BB    | 20170309         | AU20140202740      | 20140520         |
| AU2017203674 AA    | 20170615         | AU20170203674      | 20170531         |
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| CA2954433 AA       | 20090528         | CA20082954433      | 20081120         |
| CN101868203 A      | 20101020         | CN200880117222     | 20081120         |
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| CN101883546 A      | 20101110         | CN200880117224     | 20081120         |
| CN101883546 B      | 20170510         | CN200880117224     | 20081120         |
| CN101917947 A      | 20101215         | CN200880117352     | 20081120         |
| CN101917947 B      | 20160316         | CN200880117352     | 20081120         |
| CN104382691 A      | 20150304         | CN201410470270     | 20081120         |
| CN104382691 B      | 20180831         | CN201410470270     | 20081120         |
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| EP2214611 A1       | 20100811         | EP20080851879      | 20081120         |
| EP2214612 A1       | 20100811         | EP20080852616      | 20081120         |
| EP3000448 A1       | 20160330         | EP20150186240      | 20081120         |
| EP3184091 A1       | 20170628         | EP20170150357      | 20081120         |
| EP3254650 A1       | 20171213         | EP20170171833      | 20081120         |
| EP3354243 A1       | 20180801         | EP20180157768      | 20081120         |
| EP3360519 A1       | 20180815         | EP20180157642      | 20081120         |
| GB200722820 A0     | 20080102         | GB20070022820      | 20071121         |
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| GB200817040 A0     | 20081022         | GB20080017040      | 20080917         |
| JP2011504126 T2    | 20110203         | JP20100534548T     | 20081120         |
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| JP2011504391 T2    | 20110210         | JP20100534549T     | 20081120         |
| JP2013233447 A2    | 20131121         | JP20130160258      | 20130801         |
| JP2014155866 A2    | 20140828         | JP20140095212      | 20140502         |
| JP2015107401 A2    | 20150611         | JP20150046891      | 20150310         |
| JP2016105842 A2    | 20160616         | JP20160045451      | 20160309         |
| JP2016137278 A2    | 20160804         | JP20160058096      | 20160323         |
| JP2017056260 A2    | 20170323         | JP20160252935      | 20161227         |
| JP2018110927 A2    | 20180719         | JP20180076049      | 20180411         |
| JP5336508 B2       | 20131106         | JP20100534550T     | 20081120         |
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| JP5714331 B2    | 20150507 | JP20100534548T | 20081120 |
| JP5902227 B2    | 20160413 | JP20140095212  | 20140502 |
| JP5908438 B2    | 20160426 | JP20130160258  | 20130801 |
| JP6073398 B2    | 20170201 | JP20150046891  | 20150310 |
| JP6088685 B2    | 20170301 | JP20160045451  | 20160309 |
| JP6373953 B2    | 20180815 | JP20160252935  | 20161227 |
| MX2010005551 A1 | 20100602 | MX20100005551  | 20081120 |
| MX2010005552 A1 | 20100602 | MX20100005552  | 20081120 |
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| US2011028918 AA | 20110203 | US20080744277  | 20081120 |
| US2011054421 AA | 20110303 | US20080744218  | 20081120 |
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| US2014228791 AA | 20140814 | US20140259026  | 20140422 |
| US2014236109 AA | 20140821 | US20140254807  | 20140416 |
| US2014249493 AA | 20140904 | US20140276983  | 20140513 |
| US2015224238 AA | 20150813 | US20150692622  | 20150421 |
| US2016081859 AA | 20160324 | US20150869826  | 20150929 |
| US2016270967 AA | 20160922 | US20160169461  | 20160531 |
| US2017181896 AA | 20170629 | US20170457709  | 20170313 |
| US2017181897 AA | 20170629 | US20170460123  | 20170315 |
| US2017266051 AA | 20170921 | US20170610031  | 20170531 |
| US2018133065 AA | 20180517 | US20170850996  | 20171221 |
| US2018214317 AA | 20180802 | US20180940788  | 20180329 |
| US2018235816 AA | 20180823 | US20180962932  | 20180425 |
| US2018243142 AA | 20180830 | US20180965734  | 20180427 |
| US8715256 BB    | 20140506 | US20080744055  | 20081120 |
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| US9962474 BB    | 20180508 | US20140254807  | 20140416 |
| US10016309 BB   | 20180710 | US20150869826  | 20150929 |
| WO09066104 A1   | 20090528 | WO2008GB51088  | 20081120 |
| WO09066105 A1   | 20090528 | WO2008GB51089  | 20081120 |
| WO09066106 A1   | 20090528 | WO2008GB51090  | 20081120 |

**Priority:**

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| GB20070022820  | 20071121 | GB20080017040  | 20080917 | GB20080017020  | 20080917 |
| AU20080327661  | 20081120 | CN200880117222 | 20081120 | CA20082705898  | 20081120 |
| JP20100534548  | 20081120 | JP20100534548T | 20081120 | EP20080851879  | 20081120 |
| CN200880117352 | 20081120 | EP20080851713  | 20081120 | JP20100534550  | 20081120 |
| JP20100534549  | 20081120 | JP20100534549T | 20081120 | JP20100534550T | 20081120 |
| JP20140095212  | 20081120 | JP20130160258  | 20081120 | JP20150046891  | 20081120 |
| JP20160058096  | 20081120 | US20080744277  | 20081120 | WO2008GB51088  | 20081120 |
| WO2008GB51089  | 20081120 | WO2008GB51090  | 20081120 | US20100744055  | 20100520 |
| US20100744277  | 20100920 | US20100744218  | 20100920 | US20140254807  | 20140416 |
| US20140259026  | 20140422 | US20140276983  | 20140513 | AU20140202740  | 20140520 |
| JP20150046891  | 20150310 | US20150692622  | 20150421 | US20150869826  | 20150929 |
| JP20160045451  | 20160309 | JP20160058096  | 20160323 | US20160169461  | 20160531 |
| JP20160252935  | 20161227 | CA20172705898  | 20170117 | US20170457709  | 20170313 |
| US20170460123  | 20170315 | AU20170203674  | 20170531 | US20170610031  | 20170531 |
| US20170850996  | 20171221 | US20180940788  | 20180329 | US20180962932  | 20180425 |
| US20180965734  | 20180427 |                |          |                |          |

**Probable Assignee:** SMITH AND NEPHEW PLC

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

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

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

**Inventor(s):** EDWARD YERBURY HARTWELL

**Agent(s):** DAVIES COLLISON CAVE; GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; 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:** APPARATUS AND METHOD FOR WOUND VOLUME MEASUREMENT

**Abstract:** A method and apparatus for measuring a volume of a wound are described, the method comprising the steps of: applying a dressing over a wound, the volume of which is to be measured, the dressing including at least a sealing drape over the wound so as to create a sealed wound cavity; creating a vacuum in said wound cavity by vacuum pump means so as to produce a predetermined vacuum in the wound cavity; measuring a volume of air extracted from said wound cavity in producing said predetermined vacuum; and, calculating a volume of said wound.

**Classifications:**

**International (IPC 8-9):** A61B17/00 A61B5/00 A61B5/107 A61F13/00

A61M1/00 A61M27/00 A61M5/00 (Advanced/Invention);

A61M25/00 A61M3/00 A61M35/00 (Advanced/Non-invention);

A61B5/107 (Core/Invention)

**CPC:** A61B5/107 A61B5/6843 A61M1/0025 A61M1/0088 A61M2205/15

A61M2205/18 A61M2230/00 A61M2205/50 A61M2205/3344

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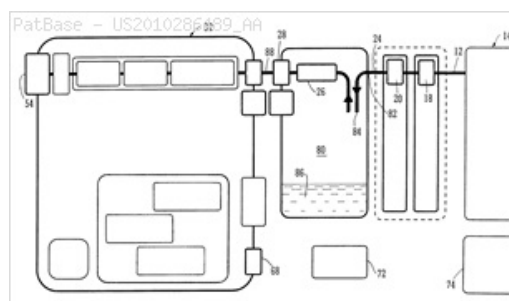
A61F13/00 A61B5/445

**European:** A61B5/107 A61B5/44B6

**US:** 1/1 600/300 600/300P 600/587 604/119 604/187 604/192 604/268

604/289 604/290 604/296 604/300 604/304 604/305 604/311 604/312

604/313 604/315 604/316 604/318 604/319 604/319S 604/35 604/36

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2008332906 AA    | 20090611         | AU20080332906      | 20081007         |
| AU2008332906 BB    | 20140619         | AU20080332906      | 20081007         |
| CA2706163 AA       | 20090611         | CA20082706163      | 20081007         |
| CA2706163 C        | 20170214         | CA20082706163      | 20081007         |
| DE602008043216 D1  | 20160512         | DE200860043216T    | 20081007         |
| EP2237724 A1       | 20101013         | EP20080806733      | 20081007         |
| EP2237724 B1       | 20160330         | EP20080806733      | 20081007         |
| ES2574856 T3       | 20160622         | ES20080806733T     | 20081007         |
| GB200723855 A0     | 20080116         | GB20070023855      | 20071206         |
| JP2011508614 T2    | 20110317         | JP20100536534T     | 20081007         |
| JP5450437 B2       | 20140326         | JP20100536534T     | 20081007         |
| TR201608962 T4     | 20160721         | TR20160008962T     | 20081007         |
| US2010286489 AA    | 20101111         | US20080746492      | 20081007         |
| US2015032031 AA    | 20150129         | US20140455200      | 20140808         |
| US2016166740 AA    | 20160616         | US20150946468      | 20151119         |
| US8814841 BB       | 20140826         | US20080746492      | 20081007         |
| US9192332 BB       | 20151124         | US20140455200      | 20140808         |
| US9987402 BB       | 20180605         | US20150946468      | 20151119         |
| WO09071924 A1      | 20090611         | WO2008GB50917      | 20081007         |
| ZA201003389 A      | 20110330         | ZA20100003389      | 20100513         |

**Priority:**

GB20070023855 20071206 EP20080806733 20081007 WO2008GB50917 20081007  
US20100746492 20100604 US20140455200 20140808 US20150946468 20151119

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): HARTWELL EDWARD ; SMITH AND NEPHEW

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

**Inventor(s):** (std): HARTWELL EDWARD

**Inventor(s):** EDWARD HARTWELL

**Agent(s):** DAVIES COLLISON CAVE; GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; ADCOCKS CLAIR; SMITH AND NEPHEW; DE ELZABURU ALBERTO; ZEHLA YILDIRIM; KNOBBE MARTENS OLSON AND BEAR LLP; BOAKES JASON CARRINGTON

**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:** DRESSING AND METHOD FOR APPLYING REDUCED PRESSURE TO AND COLLECTING AND STORING FLUID FROM A TISSUE SITE

**Abstract:** A reduced pressure treatment system includes a reduced pressure source and a reduced pressure dressing. The dressing includes an interface layer adapted to be positioned at a tissue site and an absorbent layer in fluid communication with the interface layer to absorb liquid from at least one of the interface layer and the tissue site. A diverter layer is positioned adjacent the absorbent layer, and the diverter layer includes a plurality of apertures in fluid communication with the absorbent layer to distribute a reduced pressure to the absorbent layer. A cover is positioned over the diverter layer to maintain the reduced pressure at the tissue site.

**Classifications:**

**International (IPC 8-9):** A61F A61F13/00 A61F13/02 A61F13/15 A61F5/34 A61M A61M1/00 A61M27/00 F04B43/04 F04B43/06 (Advanced/Invention); A61F13/02 A61M1/00 A61M27/00 F04B43/04 F04B43/06 (Advanced/Non-invention);

A61F13/00 A61F13/02 A61F5/01 A61M1/00 (Core/Invention);

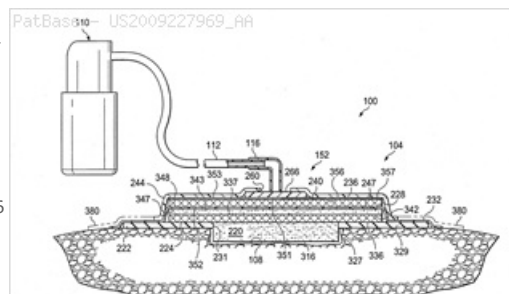
A61F13/02 A61M1/00 A61M27/00 (Core/Non-invention);

A61F A61M (Subclass/Invention)

**CPC:** A61M1/0031 A61F2013/00174 A61F2013/00412 A61F2013/00536 A61F2013/00544 A61M1/0052 A61M1/0088 A61M2205/15 A61M2205/7536 A61M1/0049 A61M1/0092 A61F13/00063 A61F13/00068 A61F13/0206 A61F13/0209 A61F13/0216 A61F13/022 A61M1/009

**European:** A61F13/02 A61M1/00T6 K61M1/00H12D K61M1/00T6P K61M205/75D

**US:** 1/1 128/118.1 128/118.100S 602/43 602/43P 602/48 602/48P 604/304 604/313 604/313P 604/313S 604/315 604/319 604/540 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2009221772 BB    | 20150122         | AU20090221772      | 20090305         |
| AU2009221774 AA    | 20090911         | AU20090221774      | 20090305         |
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| AU2014277788 BB    | 20161103         | AU20140277788      | 20141218         |
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| US20090034013P | 20090305 | WO2009US36217  | 20090305 | WO2009US36222  | 20090305 |
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| US20180944639  | 20180403 |                |          |                |          |

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**Assignee(s):** (std): TOUT AIDAN MARCUS ; LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK ; KCL LICENSING INC ; TOUT ALDEN MARCUS ; LOCKE CHRISTOPHER DRIAN ; TOUT ALDAN MARCUS ; KEJSIAJ LAJSENZING INK ; COULTHARD RICHARD DANIEL JOHN ; JAEB JONATHAN PAUL ; KCI LICENSING INC

**Assignee(s):** KCI LICENSING INC SAN ANTONIO ; KCI USA INC ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS

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**Inventor(s):** CHRISTOPHER BRIAN LOCKE ; AIDAN MARCUS TOUT ; JONATHAN PAUL JAEB ; RICHARD DANIEL JOHN COULTHARD ; TIMOTHY MARK ROBINSON ; TOUT AIDAN MARCUS NOMANSLAND ; LOCKE CHRISTOPHER BRIAN BOURNEMOUTH ; ROBINSON TIMOTHY MARK BASINGSTOKE ; JAEB JONATHAN PAUL BOERNE ; CHRSTOPHER BRIAN LOCKE ; COULTHARD RICHARD DANIEL JOHN VERWOOD

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; OLSWANG GERMANY LLP; MAGGS MICHAEL NORMAN; CORDINA KEVIN JOHN; ASHTON TIMOTHY; CMS CAMERON MCKENNA NABARRO OLSWANG LLP; ONE LEGAL LLC; KINETIC CONCEPTS INC C O SONNENSCHN NATH AND ROSENTHAL LLP; KINETIC CONCEPTS INC C O 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 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:** VACUUM PORT FOR VACUUM WOUND THERAPY

**Abstract:** The present disclosure describes a dressing for use in a vacuum wound therapy procedure to promote healing of a wound. The dressing includes a cover layer for positioning over a wound to define a reservoir in which a reduced pressure may be maintained over the wound. A portal member is mounted relative to the cover layer and defines a fluid passage for fluid coupling with a reduced pressure supply conduit for creating the reduced pressure within the reservoir. A filter screen is mounted relative to the fluid passage and is dimensioned to minimize passage of tissue particles of predetermined dimension through the fluid passage of the portal member

**Classifications:**

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

A61M27/00 (Advanced/Invention);

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

A61F13/00 A61F13/02 A61M1/00 A61M27/00 (Core/Invention)

**CPC:** A61F2013/00174 A61F2013/00536 A61F2013/0054 A61M1/0052

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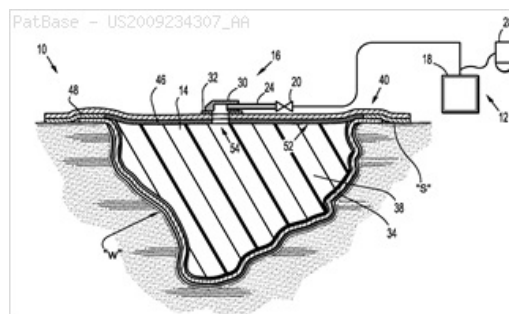
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**European:** A61M1/00H12 A61M1/00T6 K61F13/00L1T K61F13/00L1V

K61M1/00H12D K61M205/75F

**US:** 1/1 602/57 602/57S 604/304 604/304P 604/313 604/313P 604/317

604/319 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
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| CA2718424 C        | 20170530         | CA20092718424      | 20090313         |
| CA2718425 AA       | 20100913         | CA20092718425      | 20090313         |
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| CN102015007 B      | 20130612         | CN200980116423     | 20090313         |
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| EP2252247 A2       | 20101124         | EP20090719097      | 20090313         |
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| EP2254647 A4       | 20130403         | EP20090721153      | 20090313         |
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| US8152785 BB       | 20120410         | US20090402893      | 20090312         |
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**Priority:**

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| US20090402840 20090312  | US20090402804 20090312 | CA20092718424 20090313 |
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| WO2009US37133 20090313  | US20150948024 20151120 | US20160192675 20160624 |
| CA20172718424 20170517  |                        |                        |

**Probable Assignee:** TYCO HEALTHCARE GROUP LP

**Assignee(s):** (std): COVIDIEN LP ; SMITH AND NEPHEW INC ; TYCO HEALTHCARE ; VITARIS RONALD F ; VITARIS BETHANY A

**Assignee(s):** TYCO HEALTHCARE GROUP LP ; SMITH AND NEPHEW INC MEMPHIS ; SMITH NEPHEW INC

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**Inventor(s):** A BETHANY VITARIS ; BETHANY A VITARIS ; RONALD F VITARIS

**Agent(s):** SMART AND BIGGAR; MURGITROYD AND CO; GRAY JAMES; RUTHERFORD CLAIRE; HARDY ROSEMARY; DE ELZABURU ALBERTO; ZEHRA YILDIRIM; TYCO HEALTHCARE GROUP LP; ELIAS; KNOBBE MARTENS OLSON AND BEAR LLP; SCHMIDT JOSEPH W; SCHMIDT JOSEPH W 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 CM CN CO CR CU CY CZ  
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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



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**Title:** REDUCED-PRESSURE, WOUND-CLOSURE AND TREATMENT SYSTEMS AND METHODS

**Abstract:** A reduced-pressure, wound closure system is presented that generates a closing force on a surface wound and optionally provides reduced pressure to a body cavity or tissue site. The sealed contracting member, when placed under reduced pressure, generates the closing force. One illustrative system includes a first attachment member and a second attachment member, a sealed contracting member coupled to the first attachment member and the second attachment member, and wherein the closing force is generated between the first attachment member and the second attachment member when reduced pressure is supplied to the sealed contracting member. Other systems and methods are presented.

**Classifications:**

**International (IPC 8-9):** A61B17/00 A61B17/03 A61B17/064 A61B17/08 A61D1/00 A61F13/00 A61F13/02 A61F13/14 A61F15/00 A61M1/00 A61M27/00 A61M35/00 A61M37/00 A61M39/08 A61M5/32 B23P11/00 B23P17/04 B32B38/04 (Advanced/Invention); A61F13/00 A61F13/02 A61M1/00 A61M27/00 A61M39/08 (Advanced/Non-invention);

A61B17/03 A61F13/00 A61F13/02 A61M1/00 B23P11/00 B23P17/00 (Core/Invention); A61F13/02 A61M1/00 A61M27/00 A61M35/00 (Core/Non-invention); A61M (Subclass/Invention)

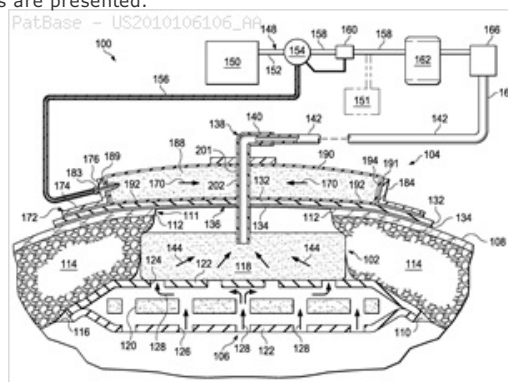
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#### Probable Assignee: KCI LICENSING INC

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Assignee(s):</b> (std): | BEARD MARK STEPHEN JAMES ; COWARD CHRISTOPHER GUY ; HALL COLIN JOHN ; HARDMAN IAN ; HEATON KEITH PATRICK ; HARDMAN IAN JAMES ; KCI LICENSING INC ; KCI LICENSING INC ; HALL COLLIN JOHN ; WHYTE DAVID GEORGE ; SEALY JAMES JOSEPH ; WHYTE DAVID ; ROBINSON TIMOTHY MARK ; LOCKE CHRISTOPHER BRIAN ; KCI LICENSING INC ; KEJSIAJ LAJSENZING INK                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Assignee(s):</b>        | KCI LICENSING INCP.O. BOX 659508LEGAL DEPARTMENT-INTELLECTUAL PROPERTYSAN ANTONIOTX78265-9508US ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; KCI USA INC ; KCI LICENSING INC SAN ANTONIO ; KCI LICENSING INC US ; BEARD MARK STEPHAN JAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Inventor(s):</b> (std): | BEARD MARK STEPHEN JAMES ; COWARD CHRISTOPHER GUY ; HALL COLIN JOHN ; HARDMAN IAN ; HARDMAN IAN JAMES ; HEATON KEITH PATRICK ; JAMES JOSEPH SEALY ; LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK ; SEALY JAMES JOSEPH ; WHYTE DAVID ; WHYTE DAVID GEORGE ; MARK ROBINSON TIMOTHY ; KEITH PATRICK HEATON ; JOSEPH SEALY JAMES ; JOHN HALL COLIN ; JAMES HARDMAN IAN ; JAMES BEARD MARK STEPHEN ; JAMES BEARD MARK STEPHAN ; HALL COLLIN JOHN ; HALL COLIN ; GUY COWARD CHRISTOPHER ; DAVID WHYTE ; COLIN JOHN HALL ; CHRISTOPHER GUY COWARD ; BRIAN LOCKE CHRISTOPHER ; BEARD MARK STEPHAN JAMES ; KOUARD KRISTOFER GAJ ; KHOLL KOLIN DZHON ; KHITON KEJT PATRIK ; KHARDMAN AJAN DZHEJMS ; PATRICK HEATON KEITH |

**Inventor(s):** MARK STEPHAN JAMES BEARD ; IAN JAMES HARDMAN ; WHYTE DAVID GEORGE WAREHAM ; WHYTE DAVIDGB ; SEALY JAMES JOSEPH HANTS ; SEALY JAMES JOSEPHGB ; TIMOTHY MARK ROBINSON ; ROBINSON TIMOTHY MARK BASINGSTOKE ; LOCKE CHRISTOPHER BRIAN BOURNEMOUTH ; MARK STEPHEN JAMES BEARD ; IAN JAMES HARDMAN ; HEATON KEITH PATRICKGB ; HARDMAN IAN JAMES BOURNEMOUTH ; HARDMAN IAN JAMESGB ; HALL COLIN JOHNGB ; HALL COLIN POOLE ; COWARD CHRISTOPHER GUYGB ; BEARD MARK STEPHAN JAMES WIMBOURNE ; BEARD MARK STEPHAN JAMESGB ; BEARD MARK STEPHEN JAMESGB ; CHRISTOPHER BRIAN LOCKE

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; OLSWANG GERMANY LLP; ASHTON TIMOTHY; CORDINA KEVIN JOHN; CMS CAMERON MCKENNA NABARRO OLSWANG LLP; KITA AOYAMA INT PATENT BUREAU; UGUR GUERSAD YALCINER; KINETIC CONCEPTS INC C O SONNENSCHN NATH AND ROSENTHAL LLP; SNR DENTON US LLP; HILTON ROBERT C ET AL; 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 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:** REDUCED-PRESSURE TREATMENT SYSTEMS AND METHODS EMPLOYING DEBRIDEMENT MECHANISMS

**Abstract:** Reduced-pressure treatment systems and methods are disclosed that employ debridement mechanisms to remove unwanted tissue. In one instance, a reduced-pressure treatment system for treating a tissue site on a patient includes a manifold member for distributing reduced pressure to the tissue site, a support member for disposing proximate the tissue site and the manifold, and a debridement mechanism coupled to the support member. The debridement mechanism is for debriding the tissue site. The system further includes a sealing drape for placing over the tissue site and manifold member. The sealing drape is operable to form a fluid seal over the tissue site and manifold member. The system also includes a reduced-pressure subsystem for delivering a reduced pressure to the sealing drape. The system may further include a chemical-debridement subsystem. Other systems, manifolds, and methods are disclosed.

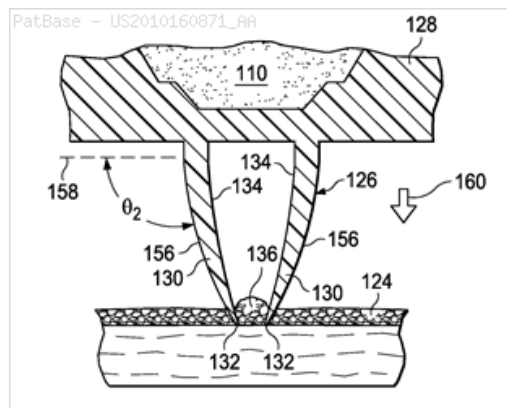
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**CPC:** A61B2017/00561 A61M1/0084 A61M1/0088 A61F13/00063 Y10T29/49826 A61K38/4886 C12Y304/24007 C12Y304/22003 A61K38/4873 A61K38/4826 C12Y304/21004 C12Y304/21002 C12Y304/22002 A61K38/486 C12Y304/21 A61K35/64 A61B2017/320008 A61B17/30 A61F13/00068 A61K35/63 A61B17/32 A61M27/00

**European:** A61B17/32 A61M1/00T2 A61M1/00T6 A61M27/00 K61B17/00N10 K61B17/30

**US:** 1/1 29/428 29/428S 604/22 604/22P 604/290 604/290P 604/313 604/313S 604/540 606/131 606/131S

**Family:**

| Publication number | Publication date | Application number | Application date |
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| US8486032 BB       | 20130716         | US20090639351      | 20091216         |
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| US9492324 BB       | 20161115         | US20120462818      | 20120503         |
| WO10075178 A2      | 20100701         | WO2009US68542      | 20091217         |
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**Priority:**

US20080140654P 20081224 US20090639351 20091216 WO2009US68542 20091217  
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**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC ; SEEGERT CHARLES ALAN ; WILKES ROBERT PEYTON

**Assignee(s):** WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; KCI LICENSING INC US ; KCI USA INC

**Inventor(s):** (std): SEEGERT CHARLES ALAN ; WILKES ROBERT PEYTON

**Inventor(s):** CHARLES ALAN SEEGERT ; ROBERT PEYTON WILKES

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ASHTON TIMOTHY; KITA AOYAMA INT PATENT BUREAU; KINETIC CONCEPTS INC C O SONNENSCHN NATH AND ROSENTHAL LLP; JOHNSTON ROBERT H III ET AL

**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 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** WOUND PACKING

**Abstract:** The present invention relates to a wound packing material, suitable for use in negative pressure wound therapy, comprising a body of a porous material, the body comprising frangible regions defining a plurality of portions, the frangible regions allowing the portions to be selectively removed from the body. The invention further relates to methods of manufacturing the wound packing material, and to methods of its use.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02 A61F13/36 A61F15/00 A61L15/22 A61L15/42 A61M1/00 A61M15/00 B23P17/04 B26D3/08

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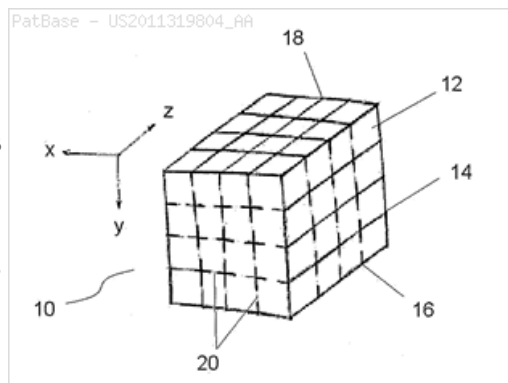
A61F13/00 A61F13/36 A61L15/16 A61M15/00 (Core/Invention);

A61F A61L A61M (Subclass/Invention)

**CPC:** A61F13/00987 A61F13/0276 A61F15/001 A61L15/425 Y10T29/49826 Y10T83/0341 Y10T83/04 Y10T83/0524 A61F2013/00357 A61M1/0088 A61F13/00068

**European:** A61F13/00M A61F13/02M A61F15/00B A61L15/42E A61M1/00T6

**US:** 1/1 264/138 29/428 29/428S 602/43 602/43S 602/46 602/46P 604/304 604/319 604/319S 604/369 604/378 83/13 83/13S 83/39 83/39S 83/880



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2010212651 BB    | 20150319         | AU20100212651      | 20100210         |
| CA2752178 AA       | 20100819         | CA20102752178      | 20100210         |
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| EP2395957 B1       | 20160427         | EP20100707629      | 20100210         |
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| TR201610335 T4     | 20160822         | TR20160010335T     | 20100210         |
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| US2014323998 AA    | 20141030         | US20140328323      | 20140710         |
| US2016367736 AA    | 20161222         | US20160187558      | 20160620         |
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| US9370450 BB       | 20160621         | US20140328323      | 20140710         |
| WO10092334 A1      | 20100819         | WO2010GB00228      | 20100210         |
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**Priority:**

GB20090002368 20090213 EP20100707629 20100210 WO2010GB00228 20100210  
US20110201427 20110914 US20140328323 20140710 US20160187558 20160620

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): GREENER BRYAN ; SMITH AND NEPHEW

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

**Inventor(s):** (std): BRYAN GREENER ; GREENER BRYAN

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; CONNORS MARTIN L H; SMITH AND NEPHEW; DE ELZABURU ALBERTO; ZEHRA YILDIRIM; 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 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:** INFANT AND YOUNG CHILDREN FEEDING FORMULA COMPRISING PROBIOTICS FOR INFANTS AND YOUNG CHILDREN

**Abstract:** The present invention relates to the field of infant and young children nutrition. In particular, the present invention relates to infant and young children feeding formulas comprising probiotic micro-organisms to be administered to infants and young children older than 6 months. These probiotic micro-organisms may be non-replicating probiotic micro-organisms such as bioactive heat treated probiotic micro-organisms, for example.

**Classifications:**

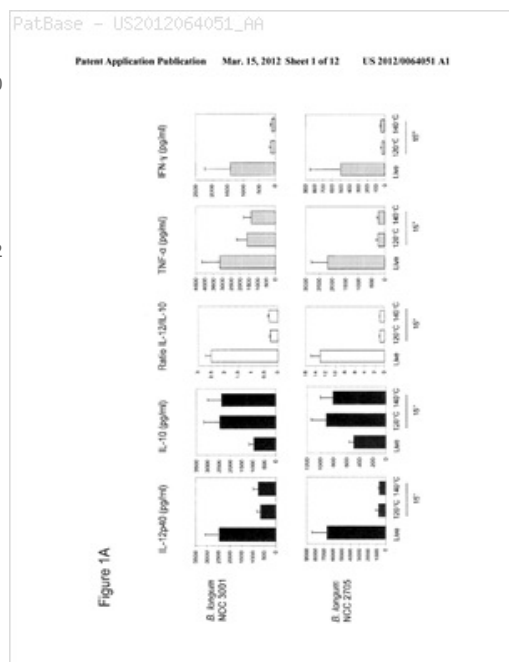
**International (IPC 8-9):** A01N63/00 A23C21/02 A23C9/00 A23C9/12 A23C9/152 A23C9/20 A23K1/00 A23K1/16 A23K10/18 A23L1/05 A23L1/0522 A23L1/10 A23L1/105 A23L1/18 A23L1/28 A23L1/29 A23L1/30 A23L2/38 A23L2/52 A23L33/10 A23L33/135 A23L7/10 A61K31/19 A61K31/198 A61K31/201 A61K31/202 A61K31/22 A61K31/70 A61K31/702 A61K31/7052 A61K31/715 A61K31/733 A61K35/20 A61K35/66 A61K35/74 A61K35/741 A61K35/744 A61K35/745 A61K35/747 A61K35/76 A61K36/00 A61K36/48 A61K38/00 A61K38/16 A61K38/17 A61K45/00 A61K47/12 A61K47/18 A61K47/26 A61K47/36 A61K47/42 A61K47/44 A61K48/00 A61K8/99 A61K9/00 A61K9/08 A61P1/00 A61P1/02 A61P1/04 A61P1/12 A61P1/14 A61P11/00 A61P11/02 A61P11/04 A61P11/06 A61P13/02 A61P15/00 A61P15/02 A61P17/00 A61P17/02 A61P21/02 A61P25/00 A61P27/02 A61P27/16 A61P29/00 A61P3/02 A61P31/00 A61P31/04 A61P31/06 A61P31/10 A61P31/12 A61P31/18 A61P31/22 A61P33/00 A61P35/00 A61P37/00 A61P37/02 A61P37/04 A61P37/06 A61P37/08 A61P43/00 A61P7/00 C12M1/38 C12N1/20 C12N1/36 (Advanced/Invention); A23C9/12 A23L1/30 A61P1/00 A61P11/00 A61P11/06 A61P17/02 A61P27/02 A61P29/00 A61P3/00 A61P31/00 A61P31/04 A61P31/10 A61P31/12 A61P33/00 A61P37/00 A61P37/08 A61P9/04 C12N1/00 C12N1/20 (Advanced/Non-invention); A61P29/00 A61P31/00 (Core/Invention); A23L1/28 A23L1/30 A61K35/74 A61P29/00 A61P31/00 A61P37/00 C12M1/38 (Core/Non-invention); A23L A61K A61P (Subclass/Invention)

**International (IPC 1-7):** A23L1/00 A61K35/74 A61P31/00 A61P37/00 A61P37/04 C12N1/20 C12N1/225

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**European:** A23K1/00C2B A23L1/29F A23L1/30M A61K35/74 A61K35/74A2 A61K35/74A2A A61K35/74A2B C12N1/00B C12N1/20 K23Y220/43

**US:** 1/1 424/282.1 424/282.100P 424/282.100S 424/439 424/439P 424/93.1 424/93.100S 424/93.4 424/93.400S 424/93.42 424/93.44 424/93.440P 424/93.440S 424/93.45 424/93.450P 424/93.450S 424/93.48 424/93.480S 426/2 426/2S 426/61 426/61S 435/245 435/245S 435/252.1 435/252.100S 435/252.8 435/252.800S 435/252.9 435/252.900S 435/253.4 435/253.400S



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AR076677 AA        | 20110629         | AR2010P101622      | 20100511         |
| AR076862 AA        | 20110713         | AR2010P101620      | 20100511         |
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| US20120319649 | 20120112 | US20120319651  | 20120112 | US20130901176 | 20130523 |
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**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:** SPECTRAL PURITY FILTER, LITHOGRAPHIC APPARATUS, AND METHOD FOR MANUFACTURING A SPECTRAL PURITY FILTER

**Abstract:** A transmissive spectral purity filter configured to transmit extreme ultraviolet radiation includes a filter part having a plurality of apertures to transmit extreme ultraviolet radiation and to suppress transmission of a second type of radiation. The apertures may be manufactured in semiconductor material such as silicon by an anisotropic etching process. The semiconductor material is provided with a hydrogen-resistant layer, such as silicon nitride Si<sub>3</sub>N<sub>4</sub>, silicon dioxide SiO<sub>2</sub>, or silicon carbide SiC.

**Classifications:**

**International (IPC 8-9):** G02B17/00 G02B19/00 G02B5/20 G02B5/22 G03B27/72 G03F7/20 G21K1/06 H01L21/027 H01L21/302

H05G2/00 (Advanced/Invention);

G02B5/20 (Advanced/Non-invention);

G02B5/20 G03F7/20 (Core/Non-invention)

**CPC:** G03F7/70925 G03F7/70033 G03F7/70166 G03F7/70191

G03F7/70575 G03F7/70983 G21K1/10 G21K2201/067 G21K1/06

**European:** G03F7/20T12 G03F7/20T14 G03F7/20T26 G03F7/70B6

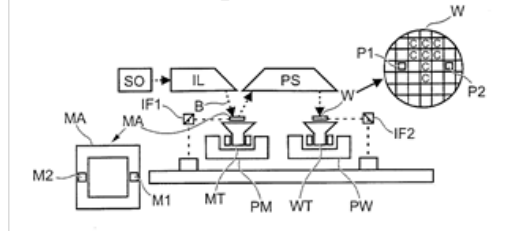
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G21K1/06 G21K1/10 S21K201/06M

**US:** 257/E21.214 257/E21.214S 355/71 355/71P 359/353 359/353S

438/69 438/69S

PatBase - US2012147350\_AA



**Family:**

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**Priority:**

US20090222001P 20090630 US20090237589P 20090827 US20100381312 20100511  
WO2010EP56436 20100511

**Probable Assignee:** ASML NETHERLANDS BV

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**Assignee(s):** ASML NETHERLANDS B V

**Inventor(s):** (std): ANDREI YAKUNIN ; BANINE VADIM ; DENIS GLUSHKOV ; GLUSHKOV DENIS ; VADIM BANINE ; YAKUNIN ANDREI ; YAKUNIN ANDREI MIKHAILOVICH ; GLUSHKOV DENIS ALEXANDROVICH ; BANINE VADIM YEVGENYEVICH

**Agent(s):** SIEM MAX YOE SHE; MORISHITA SAKAKI

**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:** NEGATIVE PRESSURE WOUND TREATMENT SYSTEM CAPABLE OF DISPLAYING RELATIONAL GRAPH BETWEEN VOLUME AND VISCOSITY OF EXUDATE

**Abstract:** The invention discloses a negative pressure wound treatment system capable of displaying a relational graph between volume and viscosity of exudate, which comprises a collection bottle, a negative pressure wound treatment device, a wound kit, a wound exudate management device, an arithmetic unit and a display interface, wherein the collection bottle is used for collecting the wound exudate; the negative pressure wound treatment device is composed of a negative pressure source and a controller and used for providing negative pressure for the collection bottle; the wound kit is used for filling and closing the wound, and communicated with the collection bottle through a connecting pipe; the wound exudate management device is used for detecting the volume and viscosity of the wound exudate in the collection bottle; the arithmetic unit is used for generating a relational graph between volume and viscosity according to the detected data of volume and viscosity; and the display interface is used for displaying the relational graph between volume and viscosity. The invention can be used for detecting volume and viscosity of wound exudate and displaying the relational graph between volume and viscosity of wound exudate on the display interface, thereby providing references for the medical care personnel to research the management on wound exudate, and thus, the medical care personnel can treat the wound in time when the wound deteriorates.

**Classifications:**

**International (IPC 8-9):** A61M1/00 A61M27/00 G01F23/284 G01F23/292 G01F23/296 G01N11/00 (Advanced/Invention)

PatBase - CN101972495\_A

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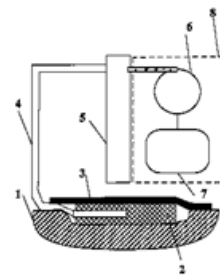


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**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
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**Priority:**

CN201010550241 20101117

**Probable Assignee:** HUIZHOU FORYOU MULTIMEDIA ELECTRONICS CO LTD

**Assignee(s):** (std): HUIZHOU FORYOU MEDICAL DEVICE CO LTD ; HUIZHOU FORYOU MULTIMEDIA ELECTRONICS CO LTD

**Assignee(s):** HUIZHOU FORYOU MEDICAL DEVICE CO ; HUIZHOU FORYOU MULTIMEDIA ELECTRONICS CO

**Inventor(s):** (std): CANYANG ZHENG ; GANG WEI ; JIQI JIAN

**Inventor(s):** WEI GANG ; ZHENG CANYANG ; JIAN JIQI

**Title:** ABSORBENT STRUCTURE

**Abstract:** An absorbent structure with a sequence of two layers includes at least one liquid absorption layer, a subsequent liquid storage layer with super absorbent polymer particles and super absorbent polymer fibers, and a subsequent liquid distribution layer. The layers are connected and form a sheet structure. The liquid storage layer has its super absorbent polymer extending from the liquid storage layer into the liquid distribution layer in order to generate a return suction effect for the liquid that has passed through the liquid absorption layer and liquid storage layer into the liquid distribution layer.

**Classifications:**

**International (IPC 8-9):** A61F13/15 A61F13/534 A61F13/537 A61F13/539 A61L15/24 A61L15/26 A61L15/60 B01J20/24 B01J20/26 B01J20/28 B32B3/26 B32B3/28 B32B3/30 B32B37/06 B32B37/10 B32B37/12 B32B37/14 B32B5/18 (Advanced/Invention);

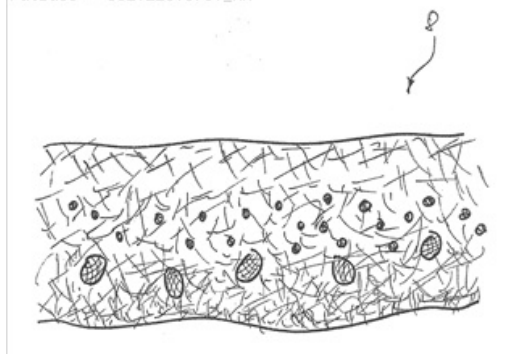
A61F13/53 (Advanced/Non-invention)

**CPC:** B01J20/26 A61F13/15658 A61F13/534 A61F13/53747 A61F13/53756 A61F2013/530532 A61F2013/530897 Y10T428/24612 Y10T428/24942 Y10T428/249953 Y10T428/24996 Y10T428/249977 Y10T428/249981 Y10T428/249986 A61L15/60 A61L15/26 A61L15/24 B01J20/24 B01J20/28023

**European:** A61F13/15M3G A61F13/534 A61F13/537C2 A61F13/537C8 K61F13/53Q2C K61F13/53S4

**US:** 1/1 156/390 156/499 156/62.2 428/172 428/212 428/304.4 428/309.9 428/314.8 428/316.6 428/317.9 502/402 604/365 604/367 604/378 604/385.01

PatBase - US2012308780\_AA

**Family:**

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| EP2503974 B1       | 20150527         | EP20100790349      | 20101126         |
| IN05689DN2012 A    | 20131129         | IN2012DN05689      | 20120626         |
| MX2012005854 A1    | 20120823         | MX20120005854      | 20101126         |
| RU2012126673 A     | 20140120         | RU20120126673      | 20101126         |
| RU2567722 C2       | 20151110         | RU20120126673      | 20101126         |
| TR201510534 T4     | 20150921         | TR20150010534T     | 20101126         |
| US2012308780 AA    | 20121206         | US20120481512      | 20120525         |
| US2014094361 AA    | 20140403         | US20130096637      | 20131204         |
| US2016243522 AA    | 20160825         | US20160145234      | 20160503         |
| US8603622 BB       | 20131210         | US20120481512      | 20120525         |
| US9333483 BB       | 20160510         | US20130096637      | 20131204         |
| WO11063975 A1      | 20110603         | WO2010EP07186      | 20101126         |

**Priority:**

DE200910055951 20091127 EP20100790349 20101126 RU20120126673 20101126  
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 US20160145234 20160503

**Probable Assignee:** GLATFELTER FALKENHAGEN GMBH

**Assignee(s):** (std): GLATFELTER FALKENHAGEN GMBH ; GLEHTFELTER FAL KENKHAGEN GMBKH ; ROETTGER HENNING ; VOLKMER RENO

**Assignee(s):** ROTTGER HENNING

**Inventor(s):** (std): ROTTGER HENNING ; VOLKMER RENO ; ROETTGER HENNING ; RETTGER KHENNING ; FOL KMER RENO

**Inventor(s):** HENNING ROETTGER ; HENNING ROTTGER ; RENO VOLKMER

**Agent(s):** SWABEY MITCHELL HOULE MARCOUX AND SHER; EISENFUEHR SPEISER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; MAXTON LANGMAACK AND PARTNER; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELTEN U RECHTSANWAELTEN MBB; CEMEN KARABAG; WARE FRESSOLA MAGUIRE AND BARBER LLP; BLANK ROME LLP

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH 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:** PORTABLE VACUUM GENERATION DEVICE, AND MEDICAL SUCTION DEVICE USING SAME

**Abstract:** Provided is a portable vacuum generator that can effectively save battery power of a vacuum pump for absorbing exudates from a suction head that is connected to a tube, and a medical suction device using the same. The medical suction device includes: a connection tube whose one end is connected to a connector of the suction head; and a vacuum generator including a vacuum pump that is connected to the other end of the connection tube and having a motor for generating negative pressure, and a vacuum pump controller that controls a power supply for the vacuum pump so as to maintain a vacuum state, in which the vacuum pump controller blocks the power supply for the vacuum pump until pressure of the vacuum pump falls down to preset minimum pressure in the case that the current pressure that is applied to the vacuum pump reaches preset maximum pressure, and drives the vacuum pump until pressure of the vacuum pump reaches the preset maximum pressure in the case that the current pressure falls down to the preset minimum pressure.

**Classifications:**

**International (IPC 8-9):** A61M1/00 A61M27/00

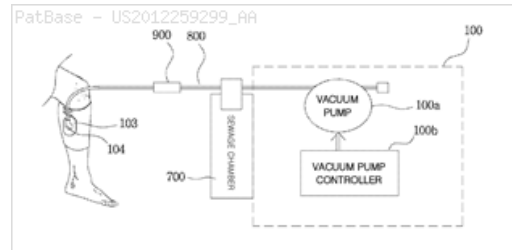
F04B49/06 (Advanced/Invention);

A61M1/00 A61M27/00 (Advanced/Non-invention)

**CPC:** A61M1/0031 A61M1/0088 A61M2205/8206

**European:** A61M1/00H2 A61M1/00T6 K61M205/82B

**US:** 417/44.2 604/313 604/319 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
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| ■ CN102917735 A    | 20130206         | CN201080053793     | 20101103         |
| ■ CN102917735 B    | 20150729         | CN201080053793     | 20101103         |
| ■ EP2508214 A2     | 20121010         | EP20100834725      | 20101103         |
| ■ EP2508214 A4     | 20150415         | EP20100834725      | 20101103         |
| ■ KR101063342 B1   | 20110907         | KR20090119862      | 20091204         |
| ■ KR20110062962 A  | 20110610         | KR20090119862      | 20091204         |
| ■ US2012259299 AA  | 20121011         | US20100513312      | 20101103         |
| ■ US8961497 BB     | 20150224         | US20100513312      | 20101103         |
| ■ WO11068310 A2    | 20110609         | WO2010KR07701      | 20101103         |
| ■ WO11068310 A3    | 20110922         | WO2010KR07701      | 20101103         |

**Priority:**

KR20090119862 20091204 WO2010KR07701 20101103

**Probable Assignee:** CG BIO CO LTD

**Assignee(s):** (std): BIOALPHA CORP ; BIOALPHA INC ; HONG JOON PIO ; RYU HYUN SEUNG ; PARK MYONG CHUL ; PARK JUN KYU

**Assignee(s):** CG BIO CO LTD

**Inventor(s):** (std): HONG JOON PIO ; PARK MYONG CHUL ; RYU HYUN SEUNG ; PARK JUN KYU

**Agent(s):** HANO CHRISTIAN; CANTOR COLBURN LLP; LEE JAE HWA

**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 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:** APPARATUSES AND METHODS FOR NEGATIVE PRESSURE WOUND THERAPY

**Abstract:** 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):** A61F13/00 A61F13/02 A61F13/36 A61M1/00 A61M27/00 (Advanced/Invention);

A61F13/00 A61M39/20 (Advanced/Non-invention)

**CPC:** A61F13/02 A61F2013/00238 A61F2013/00536 A61F2013/0057

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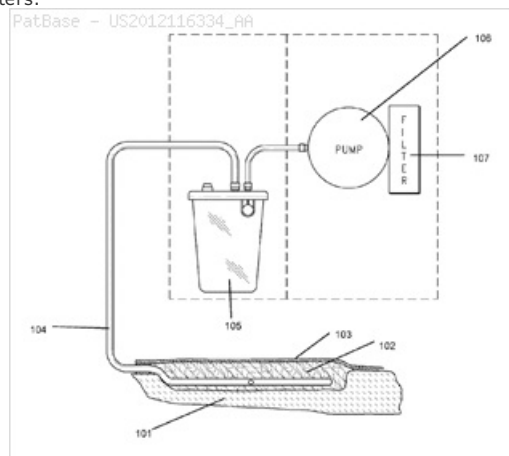
A61M1/009 A61M1/0094 A61M27/00 A61M2205/07

**European:** A61F13/02 A61M1/00T6 K61F13/00J12 K61F13/00L1T

K61F13/00L2F K61F13/00L9 K61M1/00T6V

**US:** 1/1 604/319 604/319P D24/108

**Locarno class:** 24/02 24/01



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2010341491 AA    | 20110721         | AU20100341491      | 20101222         |
| AU2010341491 BB    | 20150514         | AU20100341491      | 20101222         |
| CA2785388 AA       | 20120620         | CA20102785388      | 20101222         |
| CN102770165 A      | 20121107         | CN201080064562     | 20101222         |
| CN102770165 B      | 20160706         | CN201080064562     | 20101222         |
| CN105797224 A      | 20160727         | CN201610329462     | 20101222         |
| CN302470053 S      | 20130612         | CN201230024137F    | 20120208         |
| EP2515961 A2       | 20121031         | EP20100798935      | 20101222         |
| JP2013514871 T2    | 20130502         | JP20120546221T     | 20101222         |
| JP2016013458 A2    | 20160128         | JP20150172834      | 20150902         |
| JP5805659 B2       | 20151104         | JP20120546221T     | 20101222         |
| US2012116334 AA    | 20120510         | US20100381885      | 20101222         |
| US2014330224 AA    | 20141106         | US20140267636      | 20140501         |
| US2016151548 AA    | 20160602         | US20160018724      | 20160208         |
| US2016375184 AA    | 20161229         | US20160198690      | 20160630         |
| US2017035617 AA    | 20170209         | US20160256349      | 20160902         |
| US2018028365 AA    | 20180201         | US20170681165      | 20170818         |
| US8801685 BB       | 20140812         | US20100381885      | 20101222         |
| US9327065 BB       | 20160503         | US20140267636      | 20140501         |
| US9642750 BB       | 20170509         | US20160018724      | 20160208         |
| US9974695 BB       | 20180522         | US20160256349      | 20160902         |
| US9999547 BB       | 20180619         | US20160198690      | 20160630         |
| USD714433 S1       | 20140930         | US20110405978F     | 20111108         |
| USD746435 S1       | 20151229         | US20140501203F     | 20140902         |
| USD804014 S1       | 20171128         | US20150547295F     | 20151202         |
| WO11087871 A2      | 20110721         | WO2010US61938      | 20101222         |
| WO11087871 A3      | 20111027         | WO2010US61938      | 20101222         |

**Priority:**

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| US20090289358P | 20091222 | US20100332440P | 20100507 | US20100369008P | 20100729 |
| CN201080064562 | 20101222 | JP20120546221T | 20101222 | US20100381885  | 20101222 |
| WO2010US61938  | 20101222 | US20110405978F | 20111108 | US20110381885  | 20111230 |
| US20140267636  | 20140501 | US20140501203F | 20140902 | US20150547295F | 20151202 |
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**Probable Assignee:** SMITH AND NEPHEW PLC

**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 ; SMITH AND NEPHEW PLC

**Assignee(s):** N A

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

NELSEN ; BRENDAN CRAWFORD ; ANDREW LINTON ; ANDREW GODDARD

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

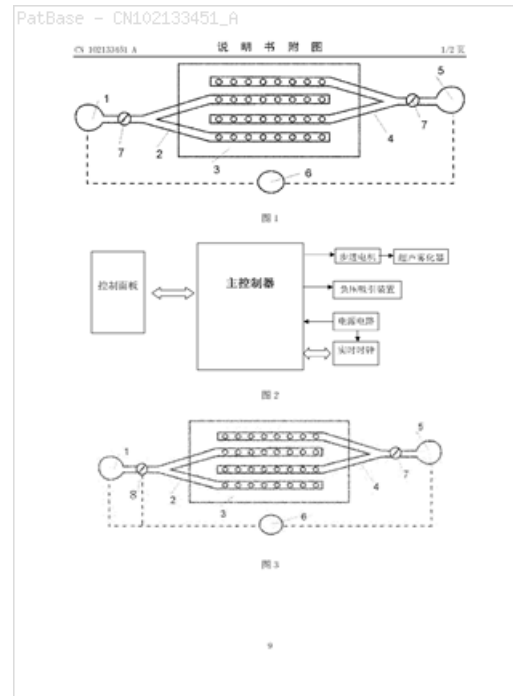
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**Title:** ATOMIZATION ADMINISTRATION AND INTERMITTENT VACUUM SEALING DRAINAGE (VSD) DEVICE FOR WOUND SURFACES

**Abstract:** The invention relates to a medical appliance for treating wound surfaces, in particular to an atomization administration and intermittent vacuum sealing drainage (VSD) device for wound surfaces, which comprises a coating material, a drainage tube and a negative pressure source, wherein one end of the drainage tube, which is provided with a side hole, is inserted into the coating material, and the other end of the drainage tube is connected with the negative pressure source. The device provided by the invention is characterized by also comprising an ultrasonic atomizer and an atomized gas introducing tube, wherein one end of the atomized gas introducing tube is connected with the ultrasonic atomizer, and the other end of the atomized gas introducing tube, which is provided with a side hole, is inserted into the coating material. The VSD technology is used by the device for forming a relatively sealed space on a wound surface, and ultrasonic atomized gas is injected between every two times of VSD, so that the wound surface is in a wet, low-oxygen and weakly acidic environment, thereby being favorable for repairing the tissues of the wound surface.

**Classifications:**

**International (IPC 8-9):** A61M1/00 A61M11/00 A61M27/00  
A61M35/00 (Advanced/Invention)



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ■ CN102133451 A    | 20110727         | CN201110034798     | 20110209         |
| ■ CN102133451 B    | 20121121         | CN201110034798     | 20110209         |

**Priority:**

CN201110034798 20110209

**Probable Assignee:** WUHAN VSD MEDICAL SCIENCE AND TECHNOLOGY CO LTD

**Assignee(s):** (std): UNIV WUHAN TECH ; WUHAN GENERAL HOSPITAL OF GUANGZHOU MILITARY ; WUHAN GENERAL HOSPITAL OF PLA GUANGZHOU MILITARY REGION OFF ; WUHAN UNIV OF TECHNOLOGY ; WUHAN VSD MEDICAL SCIENCE AND TECHNOLOGY CO LTD

**Assignee(s):** WUHAN UNIVERSITY OF TECHNOLOGY ; WUHAN VSD MEDICAL SCIENCE AND TECHNOLOGY CO

**Inventor(s):** (std): PINGGUANG XIA ; XIANHUA CAI

**Inventor(s):** CAI XIANHUA ; XIA PINGGUANG

**Title:** SYSTEMS AND METHODS FOR USING NEGATIVE PRESSURE WOUND THERAPY TO MANAGE OPEN ABDOMINAL WOUNDS

**Abstract:** Embodiments disclosed herein are directed to the treatment of wounds using negative pressure. Some embodiments disclosed herein provide for a foam pad, which may be suitable for use in abdominal wound sites, and which may be sized in a dimensionally-independent manner. Additional embodiments provide for a wound contact layer, as well as a system for the treatment of abdominal wounds.

**Classifications:**

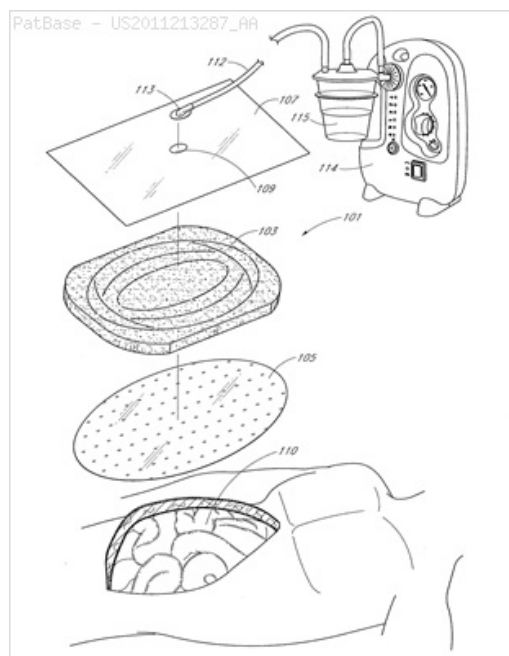
**International (IPC 8-9):** A61B A61F A61F13/00 A61F13/15 A61F5/40 A61M A61M1/00 A61M27/00 (Advanced/Invention);

A61F A61M (Subclass/Invention)

**CPC:** A61F2013/00812 A61F2013/00842 A61F13/069 A61F2013/00157 A61F2013/00174 A61F2013/00251 A61F2013/00255 A61F2013/00519 A61F2013/00536 A61F2013/0054 A61F2013/0074 A61F2013/00859 A61F2013/00863 A61F13/00017 A61M2210/1021 A61F13/00021 A61F13/00068 A61M1/0088

**European:** A61F13/00A4 A61F13/00B8 A61M1/00T6 K61F13/00J13A K61F13/00J13B K61F13/00J6 K61F13/00J8A K61F13/00L10A K61F13/00L10B K61F13/00L1R K61F13/00L1T K61F13/00L1V K61F13/00L5A5 K61F13/06D9

**US:** 602/43 602/46 602/46P 604/290 604/304 604/319 604/319S



**Family:**

| Publication number | Publication date | Application number | Application date |
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| CN102762175 A      | 20121031         | CN201180011292     | 20110225         |
| CN102762175 B      | 20160518         | CN201180011292     | 20110225         |
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| EP2538902 B1       | 20150923         | EP20110706727      | 20110225         |
| ES2553768 T3       | 20151211         | ES20110706727T     | 20110225         |
| IN07304DN2012 A    | 20151218         | IN2012DN07304      | 20120822         |
| JP2013521015 T2    | 20130610         | JP20120555197T     | 20110225         |
| JP2015128625 A2    | 20150716         | JP20150030349      | 20150219         |
| JP5933460 B2       | 20160608         | JP20120555197T     | 20110225         |
| JP6141893 B2       | 20170607         | JP20150030349      | 20150219         |
| MX2012009864 A1    | 20121001         | MX20120009864      | 20110225         |
| MX344599 B         | 20161220         | MX20120009864      | 20110225         |
| TR201516053 T4     | 20151221         | TR20150016053T     | 20110225         |
| US2011213287 AA    | 20110901         | US20100886088      | 20100920         |
| US2015011954 AA    | 20150108         | US20140333125      | 20140716         |
| US8791315 BB       | 20140729         | US20100886088      | 20100920         |
| WO11106722 A1      | 20110901         | WO2011US26347      | 20110225         |
| ZA201206174 A      | 20130731         | ZA20120006174      | 20120816         |

**Priority:**

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|----------------|----------|----------------|----------|---------------|----------|
| US20100308766P | 20100226 | US20100886088  | 20100920 | EP20110706727 | 20110225 |
| JP20120555197  | 20110225 | JP20120555197T | 20110225 | WO2011US26347 | 20110225 |
| US20140333125  | 20140716 | JP20150030349  | 20150219 |               |          |

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): LATTIMORE JAMES D ; MOSHOLDER MICHAEL B ; SMITH AND NEPHEW INC ; SMITH AND NEPHEW PLC

**Assignee(s):** SMITH AND NEPHEW INC MEMPHIS ; SMITH NEPHEW INC ; N A

**Inventor(s):** (std): LATTIMORE JAMES D ; MOSHOLDER MICHAEL B ; MICHAEL B MOSHOLDER ; JAMES D LATTIMORE

**Inventor(s):** B MICHAEL MOSHOLDER ; LATTIMORE JAMES D SAFETY HARBOR ; MOSHOLDER MICHAEL B PALM HARBOR

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; CONNORS MARTIN LH; SMITH AND NEPHEW; DE ELZABURU ALBERTO; ZEHR A YILDIRIM; 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

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TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** DELIVERY-AND-FLUID-STORAGE BRIDGES FOR USE WITH REDUCED-PRESSURE SYSTEMS

**Abstract:** Systems, methods, and apparatuses are presented that facilitate the provision of reduced pressure to a tissue site by using a delivery-and-fluid-storage bridge, which separates liquids and gases and provides a flow path for reduced pressure. In one instance, a delivery-and-fluid-storage bridge includes a delivery manifold for delivering reduced pressure to a treatment manifold at the tissue site and an absorbent layer proximate the delivery manifold adapted to receive and absorb liquids. The delivery manifold and the absorbent layer are encapsulated in an encapsulating pouch. A first aperture is formed proximate a first longitudinal end of the delivery-and-fluid-storage bridge for fluidly communicating reduced pressure to the delivery manifold from a reduced-pressure source, and a second aperture is formed on a patient-facing side of the delivery-and-fluid-storage bridge. Reduced pressure is transferred to the tissue site via the second aperture. Other systems, apparatuses, and methods are disclosed.

**Classifications:****International (IPC 8-9):** A61B1/00 A61B17/00 A61B19/00 A61F13/02

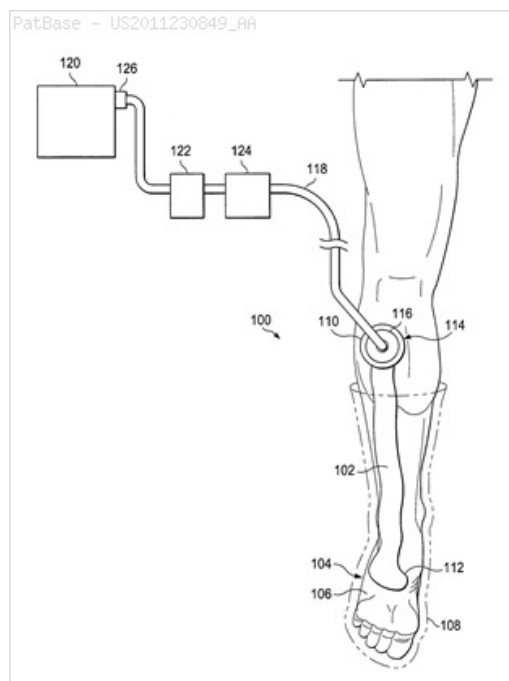
A61M1/00 A61M27/00 (Advanced/Invention)

**CPC:** A61M1/0086 A61M2205/7536 A61M1/0023 A61F13/0206

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A61M1/0001 A61M1/0066 A61M1/008 A61M1/0094

**European:** A61M1/00T6**US:** 29/428 604/319 604/319P**Family:**

| Publication number | Publication date | Application number | Application date |
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| CN105709283 B      | 20180601         | CN201610221888     | 20110314         |
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| DE602011035338 D1  | 20170406         | DE201160035338T    | 20110314         |
| EP2547375 A1       | 20130123         | EP20110714148      | 20110314         |
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| EP3000491 A1       | 20160330         | EP20150192606      | 20110314         |
| EP3000491 B1       | 20170222         | EP20150192606      | 20110314         |
| EP3195885 A1       | 20170726         | EP20170157278      | 20110314         |
| JP2013521939 T2    | 20130613         | JP20130500124T     | 20110314         |
| JP2016128004 A2    | 20160714         | JP20160039535      | 20160302         |
| JP5900929 B2       | 20160406         | JP20130500124T     | 20110314         |
| JP6313350 B2       | 20180418         | JP20160039535      | 20160302         |
| TR201515308 T4     | 20151221         | TR20150015308T     | 20110314         |
| TW201200177 A      | 20120101         | TW20110108975      | 20110316         |
| US2011230849 AA    | 20110922         | US20110046164      | 20110311         |
| US2014330227 AA    | 20141106         | US20140334510      | 20140717         |
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**Priority:**

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| US20100314299P | 20100316 | US20110046164  | 20110311 | CN201180012490 | 20110314 |
| EP20110714148  | 20110314 | JP20130500124T | 20110314 | EP20150192606  | 20110314 |
| WO2011US28344  | 20110314 | US20140334510  | 20140717 | EP20150192606  | 20151102 |
| JP20160039535  | 20160302 |                |          |                |          |

**Probable Assignee:** KCI LICENSING INC**Assignee(s):** (std): COULTHARD RICHARD DANIEL JOHN ; INGRAM SHANNON ; INGRAM SHANNON C ; KCI LICENSING INC ;

LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK

**Assignee(s):** KCI LICENSING INC SAN ANTONIO ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; KCI USA INC

**Inventor(s):** (std): BRIAN LOCKE CHRISTOPHER ; COULTHARD RICHARD DANIEL JOHN ; INGRAM SHANNON ; INGRAM SHANNON C ; JOHN COULTHARD RICHARD DANIEL ; LOCKE CHRISTOPHER BRIAN ; MARK ROBINSON TIMOTHY ; RICHARD DANIEL JOHN COULTHARD ; ROBINSON TIMOTHY MARK ; SHANNON INGRAM

**Inventor(s):** ROBINSON TIMOTHY MARK BASINGSTOKE ; LOCKE CHRISTOPHER BRIAN BOURNEMOUTH ; INGRAM SHANNON BULVERDE ; COULTHARD RICHARD DANIEL JOHN VERWOOD

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; OLSWANG GERMANY LLP; CORDINA KEVIN JOHN; BIGGS PHILIP JAMES; HILL JUSTIN JOHN; KITA AOYAMA INT PATENT BUREAU; UGUR GUERSAD YALCINER; 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:** SYSTEMS, APPARATUSES, AND METHODS FOR SIZING A SUBCUTANEOUS, REDUCED-PRESSURE TREATMENT DEVICE

**Abstract:** Systems, apparatuses, and methods for sizing a subcutaneous reduced-pressure treatment device are presented. The subcutaneous reduced-pressure treatment device typically includes a drape envelope with a manifold in the envelope that is adapted for use in a body cavity. In a sizing step, a sizing tool is used to seal and cut simultaneously the reduced-pressure treatment device so as to keep the manifold away from tissue. Other systems, apparatuses, and methods are presented.

**Classifications:**

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

A61M27/00 (Advanced/Invention);

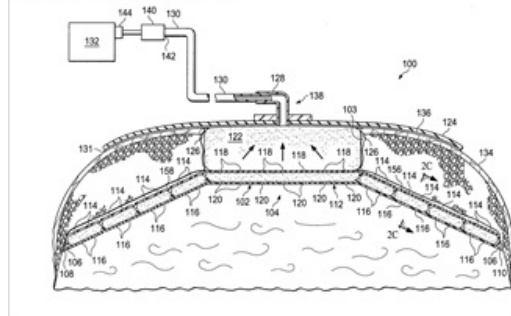
A61M1/00 A61M27/00 (Core/Non-invention)

**CPC:** A61F13/0203 A61M1/0088

**European:** A61F13/02B A61M1/00T6

**US:** 604/319 604/319P

PatBase - US2011257611\_AA



**Family:**

| Publication number | Publication date | Application number | Application date |
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**Priority:**

US20100325128P 20100416      US20110084733 20110412      EP20110717106 20110414  
WO2011US32550 20110414

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): FLOWER KINGSLEY ROBERT GEORGE ; KCI LICENSING INC ; LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK

**Assignee(s):** KCI LICENSING INC SAN ANTONIO

**Inventor(s):** (std): FLOWER KINGSLEY ROBERT GEORGE ; LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; OLSWANG GERMANY LLP; CORDINA KEVIN JOHN; KITA AOYAMA INT PATENT BUREAU; 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:** WOUND DRESSING AND METHOD OF USE

**Abstract:** 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 A61F A61F13/00 A61F13/02 A61L15/16

A61M A61M1/00 A61M27/00 A61M35/00 B63B

D06N1/00 (Advanced/Invention);

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

A61M1/00 (Core/Invention);

A61F A61M (Subclass/Invention)

**CPC:** A61M2205/15 A61M2205/7536 A61F13/00063 A61F13/0209

A61F13/069 A61F2013/00157 A61F2013/00246 A61F2013/00412 A61F2013/00519 A61F2013/00744 A61F2013/00825

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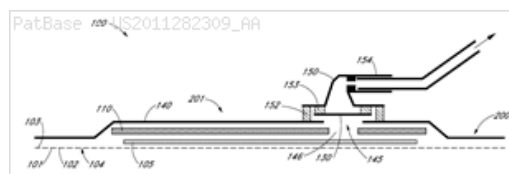
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A61M2207/00

**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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| EP20110722119 | 20110421 | EP20110722121  | 20110421 | JP20130506728T | 20110421 |
| EP20110722122 | 20110421 | WO2011GB00626  | 20110421 | WO2011GB00628  | 20110421 |
| WO2011GB00622 | 20110421 | WO2011GB00625  | 20110421 | WO2011GB00621  | 20110421 |
| US20110092042 | 20110421 | JP20130506731T | 20110421 | JP20130506729T | 20110421 |
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**Probable Assignee:** SMITH AND NEPHEW PLC

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

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

**Inventor(s):** (std): NICOLINI DEREK ; NIKOLINI DEREK ; PERON JANNIK LUIS ; PERON YANNICK ; PERON YANNICK LOUIS ; SARAH JENNY COLLINSON ; YANNICK LOUIS PERON ; ADIE GORDON CAMPBELL ; HARTWELL EDWARD ; HARTWELL EDWARD YERBURY ; GORDON CAMPBELL ADIE ; FRYER CHRISTOPHER JOHN ; FRYER CHRISTOPHER ; FRAJER KRISTOFER DZHON ; EHD I GORDON KEHMPBELL ; EDWARD YERBURY HARTWELL ; COLLINSON SARAH JENNY ; COLLINSON SARAH ; CHRISTOPHER JOHN FRYER ; KHARTVELL EHDVARD JERBERI ; KOLLINZON SARA DZHENNI ; ADIE GORDON CAMPBELL ; ADIE GORDON

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

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; CONNORS MARTIN LH; SMITH AND NEPHEW; RUTHERFORD CLAIRE; DE ELZABURU ALBERTO; ELZABURU SLP ELZABURU SLP; ZEHR A YILDIRIM; 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 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:** SYSTEMS AND METHODS FOR CONTROLLING OPERATION OF A REDUCED PRESSURE THERAPY SYSTEM

**Abstract:** 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 A61M A61M1/00 A61M27/00

A61M31/00 A61M39/22 A61M5/168 (Advanced/Invention);

A61M31/00 A61M5/168 (Advanced/Non-invention);

A61F13/00 A61M1/00 A61M27/00 (Core/Invention);

A61M (Subclass/Invention)

**CPC:** A61M2205/3334 A61M2205/8206 A61M5/16831 A61M2205/15

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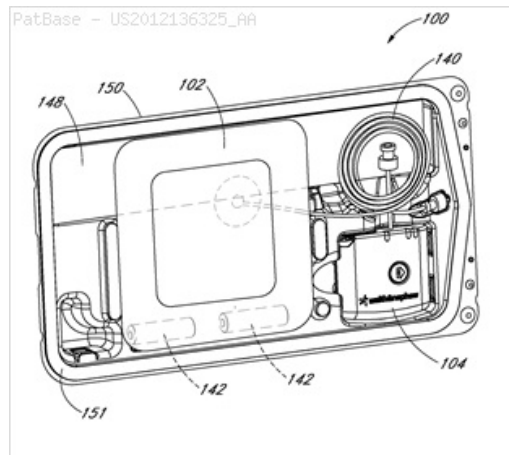
A61M39/22 A61M1/0027 A61M1/0031 A61M1/0088

**European:** A61M1/00H2 A61M1/00T6 K61M1/00H2B K61M205/15

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**US:** 1/1 604/317 604/318 604/319 604/319P 604/320 604/323 604/326

604/500 604/543

**Family:**

| Publication number | Publication date | Application number | Application date |
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| CN105749363 A      | 20160713         | CN201610096127     | 20111102         |
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| ES2639776 T3       | 20171030         | ES20110770136T     | 20110916         |
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| TR201714221 T4  | 20171121 | TR20170014221T | 20110916 |
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| US2016166741 AA | 20160616 | US20150972734  | 20151217 |
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| GB20100015656  | 20100920 | GB20100015710  | 20100920 | GB20100015709  | 20100920 |
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**Probable Assignee:** SMITH AND NEPHEW PLC

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

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

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

**Inventor(s):** BRYAN GREENER

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; CONNORS MARTIN LH; SMITH AND NEPHEW; DE ELZABURU ALBERTO; ELZABURU SLP ELZABURU SLP; ZEHRA YILDIRIM; 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:** COMPOSITION I - I AND PRODUCTS AND USES THEREOF

**Abstract:** A curable composition apportioned between at least one Part A and at least one Part B, the Parts sealed within barrier means in manner to prevent contamination thereof, the composition comprising: (i) one or more alkenyl-containing prepolymers having at least one alkenyl moiety per molecule, ii) one or more SiH-containing prepolymers having at least one SiH unit per molecule, and additionally: (iii) a catalyst for curing by addition of alkenyl-containing prepolymer (i) to SiH-containing prepolymer (ii), wherein the at least one Part A and at least one Part B are provided within or upon at least two respective receptacles or supports and are adapted to be dispensed or released therefrom in cooperative manner facilitating intimate contact and curing thereof, wherein the receptacle(s) or support(s) for at least one of Part A and Part B is thermally stable at elevated temperature of 123 C for a period in excess of 18 hours, methods for preparing the composition, methods for sterilisation thereof, medical and non-medical use thereof, a device incorporating the composition, and a precursor therefor including its sterilisable precursor composition, in particular a terminally sterilisable or terminally sterile composition for medical use, particularly in wound therapy, more particularly as a wound packing material which can be shaped and configured to the shape of a wound, most particularly for application in negative pressure wound therapy (NPWT).

**Classifications:**

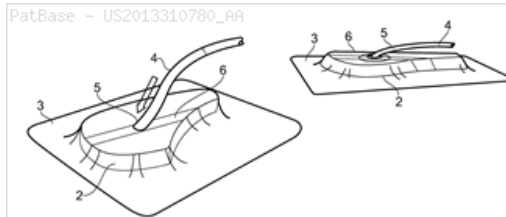
**International (IPC 8-9):** A61K47/32 A61K47/34 A61K6/00 A61K8/02 A61K8/81 A61K8/87 A61K8/891 A61K9/06 A61K9/12 A61K9/48 A61L A61L15/16 A61L15/26 A61L15/42 A61L15/58 A61L24/00 A61L24/04 A61L26/00 A61M1/00 A61P1/02 A61P17/00 A61P17/02 A61Q11/00 A61Q19/00 A61Q5/00 C08J9/02 C08K5/05 C08L101/02 C08L83/05 C08L83/07 C09D183/05 C09D183/07 C09D201/00 C09D7/12 C09J11/06 C09J183/05 C09J183/07 C09J201/00 C09K3/10 C12M1/00 (Advanced/Invention)

**CPC:** A61L26/0095 A61L24/0073 A61M1/00 A61L15/425 A61L15/26 A61L15/58 A61L15/42 A61L2400/04

**European:** A61L15/26 A61L15/42E A61L15/58

**US:** 366/177.1 521/134 525/100 604/319

PatBase - US2013310780\_AA

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2011333537 AA    | 20120531         | AU20110333537      | 20111125         |
| AU2011333537 BB    | 20150409         | AU20110333537      | 20111125         |
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| IN04621DN2013 A    | 20141128         | IN2013DN04621      | 20130524         |
| JP2014505117 T2    | 20140227         | JP20130540431T     | 20111125         |
| JP2017061696 A2    | 20170330         | JP20160210604      | 20161027         |
| JP6173916 B2       | 20170802         | JP20130540431T     | 20111125         |
| MX2013005922 A1    | 20130703         | MX20130005922      | 20111125         |
| RU2013128335 A     | 20141227         | RU20130128335      | 20111125         |
| RU2599497 C2       | 20161010         | RU20130128335      | 20111125         |
| US2013310780 AA    | 20131121         | US20110989560      | 20111125         |
| WO12069793 A1      | 20120531         | WO2011GB01649      | 20111125         |
| ZA201303561 A      | 20140129         | ZA20130003561      | 20130516         |

**Priority:**

GB20100020005 20101125 JP20130540431T 20111125 WO2011GB01649 20111125  
JP20160210604 20161027

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): PHILLIPS MARCUS DAMIAN ; SMIT END NEFYU PIELSI ; SMITH AND NEPHEW

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

**Inventor(s):** (std): PHILLIPS MARCUS DAMIAN ; MARCUS DAMIAN PHILLIPS ; FILIPS MARKUS DEMIAN

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; CONNORS MARTIN LH; CONNORS MARTIN

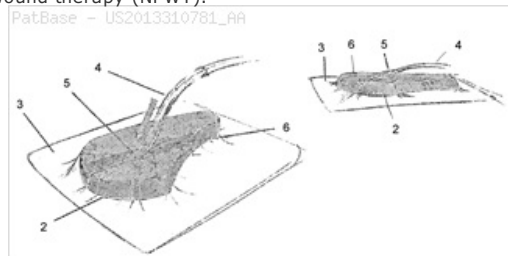
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**Title:** COMPOSITION I-II AND PRODUCTS AND USES THEREOF

**Abstract:** A curable composition apportioned between at least one Part A and at least one Part B, the Parts sealed within barrier means preventing contamination, the at least one Part A comprising: (i) one or more alkenyl-group containing prepolymers having at least one alkenyl group or moiety per molecule, and the at least one Part B comprising: (ii) one or more SiH-containing prepolymers having at least one Si-H unit per molecule; the composition additionally comprising: (iii) a catalyst for curing by addition of alkenyl-containing prepolymer (i) to SiH-containing prepolymer (ii), wherein prepolymer (ii) is substantially absent from Part A and prepolymer (i) is substantially absent from Part B, methods for preparing the composition, methods for sterilisation thereof, medical and non-medical use thereof, a device incorporating the composition, and a precursor thereof including its sterilisable precursor composition, in particular a terminally sterilisable or terminally sterile composition for medical use, particularly in wound therapy, more particularly as a wound packing material which can be shaped and configured to the shape of a wound, most particularly for application in negative pressure wound therapy (NPWT).

**Classifications:**

**International (IPC 8-9):** A23L3/3463 A23L3/358 A61F13/02 A61L A61L15/16 A61L15/24 A61L15/26 A61L15/42 A61L15/58 A61L24/00 A61L24/06 A61L26/00 A61M A61M1/00 C08L C08L101/02 C08L101/04 C08L83/04 C08L83/05 C08L83/07 C09J11/02 C09J183/05 C09J201/02 C09K3/10 (Advanced/Invention); A61L A61M (Subclass/Invention)  
**CPC:** A61L26/0095 A61L24/0073 A61F13/0216 A61L15/26 A61L15/425 A61L15/585 A61M1/0088 C08G77/12 C08G77/20 C08L83/04 A61L15/58 A61L24/0036 A61L26/0085  
**European:** A61L15/26 A61L15/42E A61L15/58M A61M1/00T6 C08L83/04 M08G77/12 M08G77/20  
**US:** 222/145.1 521/134 604/319



**Family:**

| Publication number | Publication date | Application number | Application date |
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| RU2597393 C2       | 20160910         | RU20130128336      | 20111125         |
| TR201616707 T4     | 20161221         | TR20160016707T     | 20111125         |
| US2013310781 AA    | 20131121         | US20110989569      | 20111125         |
| WO12069794 A1      | 20120531         | WO2011GB01652      | 20111125         |
| ZA201303600 A      | 20140129         | ZA20130003600      | 20130517         |

**Priority:**

GB20100019997 20101125 GB20110004512 20110317 CN201180065988 20111125  
EP20110811106 20111125 JP20130540432T 20111125 WO2011GB01652 20111125  
JP20160210602 20161027

**Probable Assignee:** BLUESTAR SILICONES FRANCE SAS

**Assignee(s):** (std): BLANC DELPHINE ; BLUESTAR SILICONES FRANCE ; NEPHEW ; SMITH AND NEPHEW ; PHILLIPS MARCUS DAMIAN ; SMIT END NEFYU PIELSI

**Assignee(s):** SMITH NEPHEW PLC ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW PLC ; BLUESTAR SILICONES FRANCE SAS

**Inventor(s):** (std): BLANC DELPHINE ; PHILLIPS MARCUS DAMIAN ; MARCUS DAMIAN PHILLIPS ; FILIPS MARKUS DEMIAN ; BLAN DELFINA

**Inventor(s):** DELPHINE BLANC

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; DE ELZABURU ALBERTO; ZEHRA YILDIRIM; ALLEN PIPPA

**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:** WOUND DRESSING FOR NEGATIVE-PRESSURE THERAPY

**Abstract:** The present invention relates to a bandage for use in negative-pressure wound therapy, more particularly for wounds in the abdominal region, comprising a flexible film as a wound contact layer and at least one conduit applied to the film, wherein the conduit communicates with the wound space through openings in the conduit and in the film.

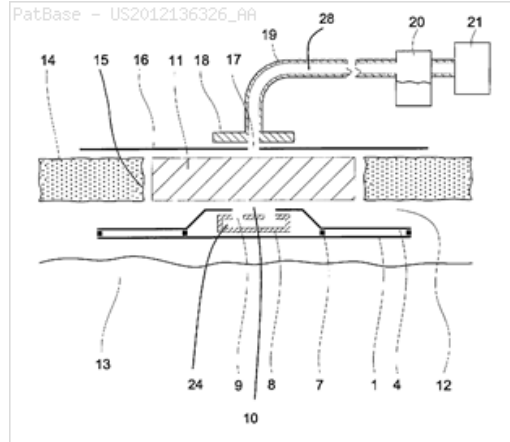
**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02 A61F13/14 A61M1/00 A61M27/00 B23P17/04 (Advanced/Invention)

**CPC:** A61F13/0289 A61M2210/1021 A61M2210/1017 A61M2207/00 A61M2205/0216 A61F2013/00336 A61M1/0088 A61F13/022 A61F13/00017 A61F13/00068 A61F13/00987 A61F13/0216 A61F13/14 A61F13/148 A61F2013/00174 A61F2013/00536 A61F2013/0054 A61F2013/00544 A61F2013/00855 Y10T29/49826

**European:** A61F13/00A2D A61F13/00B8 A61F13/00M A61F13/02B8 A61M1/00T6 K61F13/00J8A K61F13/00L10 K61F13/00L1T K61F13/00L1V K61F13/00L2 K61F13/14

**US:** 29/428 29/428S 602/47 604/313 604/319 604/319P



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DE102010052336 A1  | 20120531         | DE201010052336     | 20101125         |
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| EP2642960 B1       | 20160323         | EP20110785607      | 20111119         |
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| US2014364822 AA    | 20141211         | US20140465031      | 20140821         |
| US8926574 BB       | 20150106         | US20110301993      | 20111122         |
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**Priority:**

DE201010052336 20101125 US20100417983P 20101130 EP20110785607 20111119  
WO2011EP05840 20111119 US20110301993 20111122 US20140465031 20140821

**Probable Assignee:** PAUL HARTMANN AG

**Assignee(s):** (std): CROIZAT PIERRE ; ECKSTEIN AXEL ; FINK ULRICH ; HARTMANN PAUL AG ; HOFSTETTER JUERGEN

**Assignee(s):** PAUL HARTMANN AG

**Inventor(s):** (std): CROIZAT PIERRE ; ECKSTEIN AXEL ; FINK ULRICH ; HOFSTETTER JURGEN ; HOFSTETTER JUERGEN ; FINK ULRICH DR ; ECKSTEIN AXEL DR ; CROIZAT PIERRE DR

**Agent(s):** EIBL CHRISTIAN DIPL BIOL UNIV DR RER NAT; DILWORTH AND BARRESE LLP; OLTMANN ECKHARD 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:** REDUCED-PRESSURE, LINEAR-WOUND TREATMENT SYSTEM

**Abstract:** A system for treating a linear wound on a patient has a closing dressing bolster for placing on the patient's epidermis over the linear wound, a sealing subsystem for providing a seal over the closing dressing bolster and the patient, and a reduced-pressure subsystem for delivering reduced pressure to the sealing subsystem. The sealing subsystem and reduced pressure subsystem are operable to deliver reduced pressure to the closing dressing bolster. The closing dressing bolster is operable under reduced pressure to develop an inward closing. The closing dressing bolster may include one or more closing members on each side of a center wound area to create the inward closing when under reduced pressure. A compressive force may also be developed. Other systems and methods are presented.

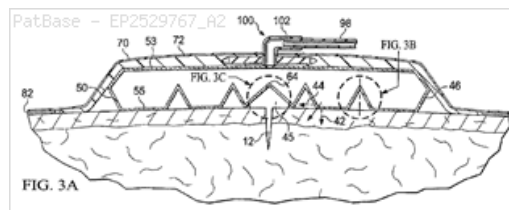
**Classifications:**

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

**CPC:** A61F13/0289 A61F13/0216 A61F13/0209 A61F13/022 A61F13/0223 A61F13/0243 A61F2013/00174 A61F2013/00536 A61F2013/0054 A61F2013/00748 A61L15/60 A61M1/0023 Y10T29/49 Y10T29/49826 A61F13/00017 A61F2013/00182 A61M2207/00 A61F13/00 A61F13/00029 A61F13/00034 A61F2013/00131 A61F2013/0028 A61H1/008 A61M1/0088 A61F2013/00136 A61F15/008 A61F13/00038 A61M2205/70 A61F2013/00246 A61F13/00059 A61F13/00068 A61M2210/1007 A61M2210/1021

**European:** A61F13/00B8 A61F13/02B10 A61F13/02B8 A61F13/02C6

A61L15/60 A61M1/00H A61M1/00T6 K61F13/00J8A K61F13/00L1T K61F13/00L1V K61F13/00L5C



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EP2529767 A2       | 20121205         | EP20120171212      | 20090529         |
| EP2529767 A3       | 20121212         | EP20120171212      | 20090529         |
| EP2529767 B1       | 20140827         | EP20120171212      | 20090529         |
| EP2529767 B2       | 20180228         | EP20120171212      | 20090529         |

**Priority:**

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| US20080057797  | 20080530 | US20080057798P | 20080530 | US20080057797P | 20080530 |
| US20080057798  | 20080530 | US20080057800  | 20080530 | US20080057803P | 20080530 |
| US20080057800P | 20080530 | US20080057805P | 20080530 | US20080057802P | 20080530 |
| US20080057803  | 20080530 | US20080057807  | 20080530 | US20080057805  | 20080530 |
| US20080057802  | 20080530 | US20080057807P | 20080530 | US20080057808P | 20080530 |
| US20080057810P | 20080530 | US20080057808  | 20080530 | US20080057810  | 20080530 |
| US20080121362P | 20081210 | US20080121362  | 20081210 | US20090144067P | 20090112 |
| US20090144067  | 20090112 | EP20090770660  | 20090529 |                |          |

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Inventor(s):** (std): BARTA ERIC ; CAVANAUGH MATTHEW FRANCIS II ; GIROUARD MICHAEL RICHARD ; KAZALA RICHARD MARVIN ; KNOWLES KENNETH MITCHEL ; LONG JUSTIN ALEXANDER ; SEEGERT CHARLES ALAN

**Agent(s):** CORDINA KEVIN JOHN; CMS CAMERON MCKENNA NABARRO OLSWANG LLP

**Designated states:** AT 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 SE SI SK TR

**Title:** COMPOSITION, APPARATUS, KIT AND METHOD AND USES THEREOF

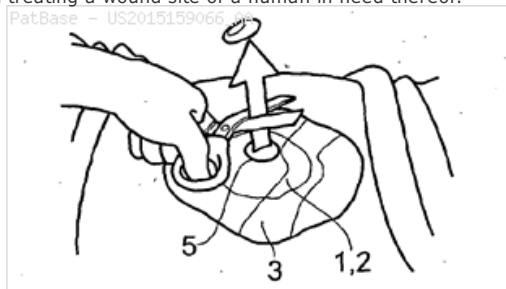
**Abstract:** A curable composition for use in wound care comprising, apportioned between at least one Part A and at least one Part B: one or more alkenyl-group containing polymers (i) having at least one alkenyl group or moiety per molecule, one or more SiH-containing polymers (ii) having at least one Si-H unit per molecule; and a catalyst (iii) for curing by addition of alkenyl-containing polymer (i) to SiH-containing polymer (ii), Part A and Part B independently having viscosity at 23 degrees centigrade in the range 5-300 Pa·s, preferably 10-100 Pa·s, at a shearing rate of 10 s<sup>-1</sup>, and when combined in one Part having cure time at 23 degrees centigrade in the range from 0.5 min to 25 min, wherein when dispensed into a location about a wound dressing, said wound dressing overlying a wound site and skin thereabout, said dispensing being so as to intimately contact and overlie an edge of said dressing and skin about said edge, the composition cures in contact with said edge and skin at 32 degrees centigrade to an elastomer exhibiting zero or low tack at a time in the range from 0.5 to less than 30 minutes, apparatus for use with said composition comprising dispensing apparatus or wound dressing, a kit comprising the same, and methods of dispensing and curing the same and of using the same in sealing a wound dressing and in treating a wound site of a human in need thereof.

**Classifications:**

**International (IPC 8-9):** A61F A61F13/00 A61F13/02 A61F17/00 A61L A61L15/16 A61L15/22 A61L15/24 A61L15/26 A61L15/30 A61L15/42 A61L15/44 A61L15/58 A61L15/60 A61L24/04 A61M A61M1/00 A61M11/00 A61M27/00 A61M5/19 C08L83/05 C08L83/07 C09J183/00 C09J201/02 (Advanced/Invention)

**CPC:** C09J183/00 A61M5/19 C09J201/02 A61M1/0088 A61F13/00063 A61F13/00068 A61F13/0216 A61F17/00 A61L15/225 A61L15/42 A61L15/585 C08L83/04 A61F13/02 A61L24/04

**US:** 525/479 604/319



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2012342246 AA    | 20130530         | AU20120342246      | 20121126         |
| AU2012342246 BB    | 20170216         | AU20120342246      | 20121126         |
| CA2856800 AA       | 20140523         | CA20122856800      | 20121126         |
| CN104203172 A      | 20141210         | CN201280068151     | 20121126         |
| EP2782536 A1       | 20141001         | EP20120808435      | 20121126         |
| GB201120454 A0     | 20120111         | GB20110020454      | 20111125         |
| GB201209619 A0     | 20120711         | GB20120009619      | 20120530         |
| IN04195DN2014 A    | 20160831         | IN2014DN04195      | 20140523         |
| JP2014534039 T2    | 20141218         | JP20140542924T     | 20121126         |
| JP2018011964 A2    | 20180125         | JP20170156395      | 20170814         |
| JP6231487 B2       | 20171206         | JP20140542924T     | 20121126         |
| KR20140094631 A    | 20140730         | KR20147016966      | 20121126         |
| RU2014124860 A     | 20151227         | RU20140124860      | 20121126         |
| RU2609993 C2       | 20170207         | RU20140124860      | 20121126         |
| US2015159066 AA    | 20150611         | US20120360591      | 20121126         |
| US2018010025 AA    | 20180111         | US20170654524      | 20170719         |
| WO13076450 A1      | 20130530         | WO2012GB00866      | 20121126         |
| WO13076450 A9      | 20130718         | WO2012GB00866      | 20121126         |
| ZA201403803 A      | 20151223         | ZA20140003803      | 20140523         |

**Priority:**

|                         |                        |                        |
|-------------------------|------------------------|------------------------|
| GB20110020454 20111125  | WO2012GB00866 20111126 | GB20120009619 20120530 |
| JP20140542924T 20121126 | WO2012GB00866 20121126 | US20140360591 20141104 |
| US20170654524 20170719  | JP20170156395 20170814 |                        |

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW

**Assignee(s):** SMITH AND NEPHEW PLC ; SMITH AND NEPHEW PLC15 ADAM STREETGREATER LONDON WC2N 6LALONDONGB ; SMITH AND NEPHEW PUBLIC CO LTD ; COLLINSON SARAH JENNY ; FRYER CHRISTOPHER JOHN ; HARTWELL EDWARD YERBURY ; PHILLIPS MARCUS DAMIAN

**Inventor(s):** (std): HARTWELL EDWARD YERBURY ; PHILLIPS MARCUS DAMIAN ; COLLINSON SARAH JENNY ; FRYER CHRISTOPHER JOHN ; COLLINSON SARAH ; PHILLIPS MARCUS DAMIAN ; EDWARD YERBURY HARTWELL ; CHRISTOPHER JOHN FRYER ; SARAH JENNY COLLINSON ; MARCUS DAMIAN PHILLIPS

**Inventor(s):** FRYER CHRISTOPHER JOHNGB ; HARTWELL EDWARD YERBURYGB ; PHILLIPS MARCUS DAMIANGB ; COLLINSON SARAH JENNYGB

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SMITH AND NEPHEW; CONNORS MARTIN

**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

**Title:** SEALING SYSTEMS AND METHODS EMPLOYING A SWITCHABLE DRAPE

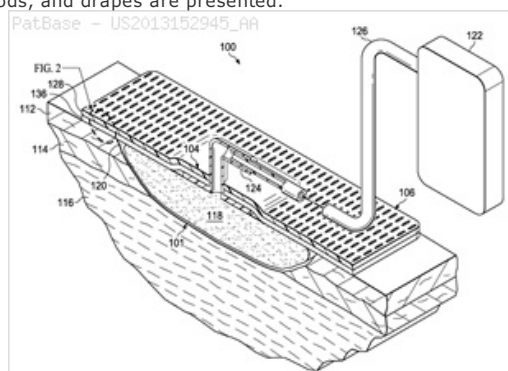
**Abstract:** A sealing system that includes a switchable drape is presented. The drape provides enhanced sealing by using a high-strength adhesive. In one instance, the switchable drape has a plurality of perforations through which a switching solution may be delivered to the high-strength adhesive. The switching solution causes the high-strength adhesive to become less adhesive so that the switchable drape may be removed more easily. Other systems, methods, and drapes are presented.

**Classifications:**

**International (IPC 8-9):** A61B17/00 A61B19/08 A61F13/00 A61F13/02 A61M1/00 A61M27/00 B32B27/08 B32B27/28 B32B27/30 B32B3/26 (Advanced/Invention)

**CPC:** A61F13/0216 A61F13/025 A61F13/0253 Y10T156/1056 A61B2046/205 C09J7/20 A61M1/0088 A61F13/00068 B32B2535/00 B32B2307/7242 B32B2255/10 B32B2250/24 B32B27/308 B32B27/283 B32B27/08 B32B3/266 A61F2013/00289 A61F13/0256 A61F13/023 A61F13/00063 A61F13/00059 A61B19/088 C09J2201/36 C09J2201/20 A61F13/00051 A61F13/0213 A61F2013/00314 A61F2013/00544 A61F2013/00604 A61F2013/00655 A61F2013/00748

**US:** 1/1 128/849 156/252 604/319

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2012351930 AA    | 20130620         | AU20120351930      | 20121214         |
| AU2012351930 BB    | 20170727         | AU20120351930      | 20121214         |
| AU2012352000 AA    | 20130620         | AU20120352000      | 20121214         |
| AU2012352000 BB    | 20170629         | AU20120352000      | 20121214         |
| CA2856740 AA       | 20140522         | CA20122856740      | 20121214         |
| CA2858074 AA       | 20140602         | CA20122858074      | 20121214         |
| CN103974679 A      | 20140806         | CN201280060163     | 20121214         |
| CN103974679 B      | 20170503         | CN201280060163     | 20121214         |
| CN103987348 A      | 20140813         | CN201280061232     | 20121214         |
| CN103987348 B      | 20160511         | CN201280061232     | 20121214         |
| CN105726211 A      | 20160706         | CN201610247839     | 20121214         |
| DE602012013007 D1  | 20160121         | DE201260013007T    | 20121214         |
| EP2790623 A2       | 20141022         | EP20120812464      | 20121214         |
| EP2802304 A1       | 20141119         | EP20120812463      | 20121214         |
| EP2802304 B1       | 20151209         | EP20120812463      | 20121214         |
| EP3005997 A1       | 20160413         | EP20150194949      | 20121214         |
| JP2015501712 A2    | 20150119         | JP20140547516      | 20121214         |
| JP2015501712 T2    | 20150119         | JP20140547516T     | 20121214         |
| JP2015505706 T2    | 20150226         | JP20140547523T     | 20121214         |
| JP2018020147 A2    | 20180208         | JP20170182858      | 20170922         |
| JP6320930 B2       | 20180509         | JP20140547516T     | 20121214         |
| TR201600443 T4     | 20160121         | TR20160000443T     | 20121214         |
| US2013152945 AA    | 20130620         | US20120715982      | 20121214         |
| US2014012213 AA    | 20140109         | US20120715967      | 20121214         |
| US2016100893 AA    | 20160414         | US20150919055      | 20151021         |
| US2017189237 AA    | 20170706         | US20170410991      | 20170120         |
| US2017252220 AA    | 20170907         | US20170600451      | 20170519         |
| US9192444 BB       | 20151124         | US20120715982      | 20121214         |
| US9861532 BB       | 20180109         | US20120715967      | 20121214         |
| WO13090810 A1      | 20130620         | WO2012US69893      | 20121214         |
| WO13090824 A2      | 20130620         | WO2012US69920      | 20121214         |
| WO13090824 A3      | 20130815         | WO2012US69920      | 20121214         |

**Priority:**

|                |          |                |          |                |          |
|----------------|----------|----------------|----------|----------------|----------|
| US20110576774P | 20111216 | US20110576786P | 20111216 | CN201280061232 | 20121214 |
| EP20120812463  | 20121214 | JP20140547523T | 20121214 | US20120715982  | 20121214 |
| US20120715967  | 20121214 | WO2012US69920  | 20121214 | WO2012US69893  | 20121214 |
| US20150919055  | 20151021 | US20170410991  | 20170120 | US20170600451  | 20170519 |
| JP20170182858  | 20170922 |                |          |                |          |

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Assignee(s):** KCI LICENSING INC SAN ANTONIO ; KCI LICENSING INC LEGAL DEPARTMENT - INTELLECTUAL PROPERTY P.O. BOX 659508 SAN ANTONIO TX 78265-9508 US ; KCI LICENSING INC P.O. BOX 659508 LEGAL DEPARTMENT - INTELLECTUAL PROPERTY SAN ANTONIO TX 78265-9508 US ; LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK ; YAO LI ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; KCI USA INC ; LUCKEMEYER JAMES

**Inventor(s):** (std): LUCKEMEYER JAMES ; LUCKEMEYER JAMES A ; TIMOTHY MARK ROBINSON ; YAO LI ; ROBINSON TIMOTHY MARK ; LOCKE CHRISTOPHER BRIAN ; CHRISTOPHER BRIAN LOCKE

**Inventor(s):** LOCKE CHRISTOPHER BRIAN GB ; ROBINSON TIMOTHY MARK GB ; YAO LI US ; YAO LI SAN ANTONIO ; LUCKEMEYER JAMES US

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; OLSWANG GERMANY LLP; CORDINA KEVIN JOHN; BIGGS PHILIP JAMES; KITA AOYAMA INT PATENT BUREAU; UGUR GUERSAD YALCINER; WELCH GERALD T 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

**Title:** REDUCED PRESSURE APPARATUS AND METHODS

**Abstract:** Some embodiments have a pump assembly mounted to or supported by a dressing for reduced pressure wound therapy. The dressing can have visual pressure, saturation, and/or temperature sensors to provide a visual indication of the level of pressure, saturation, and/or temperature within the dressing. Additionally, the pump assembly can have a pressure sensor in communication with the flow pathway through the pump, and at least one switch or button supported by the housing, the at least one switch or button being accessible to a user and being in communication with the controller. The pump assembly can have a controller supported within or by the housing, the controller being configured to control an operation of the pump. The pump can be configured to be sterilized following the assembly of the pump such that all of the components of the pump have been sterilized.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02 A61M A61M1/00

A61M27/00 A61M39/00 (Advanced/Invention);

A61M1/00 (Core/Invention)

**CPC:** A61M1/0086 A61F13/00042 A61M2205/80 A61M2205/0216

A61M1/009 A61M2205/8206 A61M2205/8293 A61M1/0088 A61M2205/82

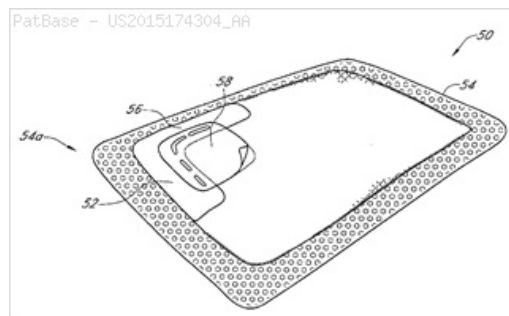
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A61F2013/0074 A61F2013/00846 A61M1/0092 A61M2205/7518

A61F13/00021 A61F13/00051

**US:** 604/319

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2013234034 AA    | 20130919         | AU20130234034      | 20130312         |
| AU2013234034 AB    | 20141023         | AU20130234034      | 20130312         |
| AU2013234034 BB    | 20170330         | AU20130234034      | 20130312         |
| AU2017204434 AA    | 20170720         | AU20170204434      | 20170629         |
| BR112014022462 A2  | 20170620         | BR20141122462      | 20130312         |
| BR112014022462 A8  | 20170718         | BR20141122462      | 20130312         |
| CA2867090 AA       | 20140911         | CA20132867090      | 20130312         |
| CN104684595 A      | 20150603         | CN201380024817     | 20130312         |
| CN104684595 B      | 20170804         | CN201380024817     | 20130312         |
| CN107260398 A      | 20171020         | CN201710560881     | 20130312         |
| CN107260399 A      | 20171020         | CN201710560902     | 20130312         |
| CN107320791 A      | 20171107         | CN201710561245     | 20130312         |
| DE602013031043 D1  | 20180125         | DE201360031043T    | 20130312         |
| EP2825220 A2       | 20150121         | EP20130724869      | 20130312         |
| EP2825220 B1       | 20171220         | EP20130724869      | 20130312         |
| EP3338821 A1       | 20180627         | EP20170199487      | 20130312         |
| IN07597DN2014 A    | 20160831         | IN2014DN07597      | 20140911         |
| JP2015514451 T2    | 20150521         | JP20140561535T     | 20130312         |
| JP2018075381 A2    | 20180517         | JP20170224460      | 20171122         |
| JP6250571 B2       | 20171220         | JP20140561535T     | 20130312         |
| MX2014011030 A1    | 20150320         | MX20140011030      | 20130312         |
| RU2014136477 A     | 20160510         | RU20140136477      | 20130312         |
| TH156609 A         | 20160920         | TH20141005289      | 20130312         |
| US2015174304 AA    | 20150625         | US20130385136      | 20130312         |
| US2017304510 AA    | 20171026         | US20170647624      | 20170712         |
| US10046096 BB      | 20180814         | US20130385136      | 20130312         |
| WO13136181 A2      | 20130919         | WO2013IB00847      | 20130312         |
| WO13136181 A3      | 20131121         | WO2013IB00847      | 20130312         |
| ZA201406470 A      | 20151223         | ZA20140006470      | 20140903         |

**Priority:**

|                |          |                |          |                |          |
|----------------|----------|----------------|----------|----------------|----------|
| US20020609905P | 20020312 | US20120609905P | 20120312 | AU20130234034  | 20130312 |
| CN201380024817 | 20130312 | EP20130724869  | 20130312 | JP20140561535T | 20130312 |
| WO2013IB00847  | 20130312 | US20130385136  | 20130312 | US20140385136  | 20140912 |
| AU20170204434  | 20170629 | US20170647624  | 20170712 | JP20170224460  | 20171122 |

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW

**Assignee(s):** NICOLINI DEREK ; MOY TOM ; FRYER CHRISTOPHER JOHN ; MULLEN PAUL ; PRYOR NEIL ; SMITH AND NEPHEW MEDICAL LTD ; WALSH PHILIP ; SMITH AND NEPHEW PLC15 ADAM STREETWC2N 2LALONDONGB ; SMITH AND NEPHEW PUBLIC CO LTD ; TJ SMITH AND NEPHEW LTD ; ASKEM BEN ALAN ; BINDER IAN ; COLLINSON SARAH JENNY ; COWAN HUGHES JOHN ; SMITH AND NEPHEW PLC

**Inventor(s):** (std): ASKEM BEN ALAN ; BEN ALAN ASKEM ; BINDER IAN ; CHRISTOPHER JOHN FRYER ; COLLINSON SARAH JENNY ; COWAN HUGHES JOHN ; FRYER CHRISTOPHER JOHN ; FRYER CHRISTOPHER JOHN ; FRYER CHRISTOPHER JOHN JOHN ; IAN BINDER ; JOHN COWAN HUGHES ; MOY TOM ; MULLEN PAUL ; NEIL PRYOR ; NICOLINI DEREK ; PAUL MAREN ; PHILLIP WALSH ; PRYOR NEIL ; SARAH JENNY COLLINSON ; TOM MOY ; WALSH PHILIP

**Inventor(s):** WALSH PHILIPGB ; PRYOR NEILGB ; PAUL MULLEN ; PHILIP WALSH ; NICOLINI DEREKGB ; MULLEN PAULGB ; MOY TOMGB ; FRYER CHRISTOPHER JOHNGB ; COWAN HUGHES JOHNGB ; DEREK NICOLINI ; COLLINSON SARAH JENNYGB ; COLLINSONSARAH JENNY ; BINDER IANGB ; ASKEM BEN ALANGB

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; SMITH AND NEPHEW; KNOBBE  
MARTENS OLSON AND BEAR LLP

**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

**Title:** CONTROLLING OPERATION OF A REDUCED PRESSURE THERAPY SYSTEM BASED ON DYNAMIC DUTY CYCLE THRESHOLD DETERMINATION

**Abstract:** 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 a duty cycle of a source of negative pressure. Based on the monitored duty cycle, the controller can determine whether a leak is present and provide an indication to a user. The controller can determine a duty cycle threshold in order to achieve an optimal or near optimal balance between an uninterrupted delivery of therapy, avoidance inconveniencing a user, conserving power, achieving optimal or near optimal efficiency, and/or limiting vibrational noise. In some embodiments, the duty cycle threshold is determined based at least in part on a capacity of a power source and an operational time of the apparatus.

**Classifications:**

**International (IPC 8-9):** A61M A61M1/00 A61M27/00

F04B49/06 (Advanced/Invention);

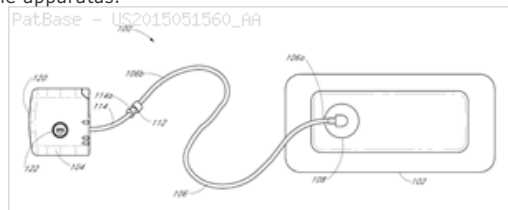
H02M1/00 (Advanced/Non-invention);

A61M1/00 (Core/Invention)

**CPC:** A61M1/0037 A61M2205/276 A61M1/0088 H02M2001/0003

H02M2001/0012 A61M1/0031 A61M2205/15 A61M2209/088

**US:** 604/319



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2013237095 AA    | 20130926         | AU20130237095      | 20130313         |
| AU2013237095 BB    | 20171005         | AU20130237095      | 20130313         |
| BR112014023149 A2  | 20170620         | BR20141123149      | 20130313         |
| BR112014023149 A8  | 20170725         | BR20141123149      | 20130313         |
| CA2867969 AA       | 20140919         | CA20132867969      | 20130313         |
| CN104507513 A      | 20150408         | CN201380026365     | 20130313         |
| CN104507513 B      | 20170412         | CN201380026365     | 20130313         |
| EP2827917 A1       | 20150128         | EP20130724870      | 20130313         |
| IN07674DN2014 A    | 20150515         | IN2014DN07674      | 20140915         |
| JP2015510803 T2    | 20150413         | JP20150501005T     | 20130313         |
| JP6276251 B2       | 20180207         | JP20150501005T     | 20130313         |
| MX2014011314 A1    | 20141017         | MX20140011314      | 20130313         |
| RU2014138377 A     | 20160520         | RU20140138377      | 20130313         |
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| US2015051560 AA    | 20150219         | US20130386322      | 20130313         |
| US2018185556 AA    | 20180705         | US20180904908      | 20180226         |
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| WO13140255 A1      | 20130926         | WO2013IB00866      | 20130313         |
| ZA201406602 A      | 20151125         | ZA20140006602      | 20140909         |

**Priority:**

US20120613456P 20120320 US20130386322 20130313 WO2013IB00866 20130313  
US20140386322 20140918 US20180904908 20180226

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW

**Assignee(s):** SMITH AND NEPHEW PLC ; SMITH AND NEPHEW PLC15 ADAM STREETWC2N 6LALONDONGB ; SMITH AND NEPHEW PUBLIC CO LTD ; ASKEM BEN ALAN

**Inventor(s):** (std): ASKEM BEN ALAN

**Inventor(s):** ASKEM BEN ALANB ; BEN ALAN ASKEM

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SMITH AND NEPHEW; KNOBBE MARTENS OLSON AND BEAR LLP

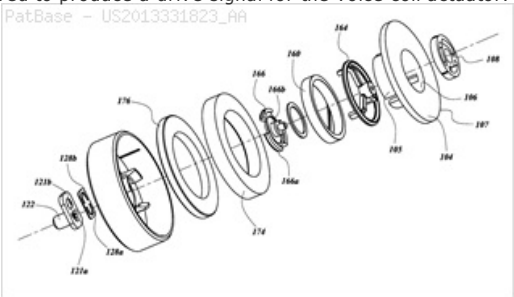
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**Title:** NEGATIVE PRESSURE WOUND THERAPY APPARATUS

**Abstract:** Some embodiments disclosed herein are directed to a pump assembly comprising a voice coil, a magnet and a diaphragm, wherein the voice coil is configured to move the diaphragm to pump a fluid through the pump assembly in response to a drive signal applied to the voice coil. Some embodiments disclosed herein are directed to an apparatus for applying negative pressure to a wound comprising a source of negative pressure configured to be coupled to a dressing, the source of negative pressure comprising a voice coil actuator and a diaphragm, and a controller configured to produce a drive signal for the voice coil actuator.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61M A61M1/00 A61M27/00  
F04B43/00 F04B43/04 F04B45/047 F04B49/06  
F04B53/10 (Advanced/Invention);  
A61F13/00 (Advanced/Non-invention)  
**CPC:** A61M27/00 A61F2013/00174 A61M1/009 F04B49/06 A61M2209/088  
F04B43/0054 F04B43/04 F04B45/047 A61M2205/8206 A61M1/0088  
F04B53/10 A61F13/00068 A61M1/0072  
**US:** 1/1 417/44.1 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2013261164 AA    | 20131121         | AU20130261164      | 20130515         |
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| MX2014013963 A1    | 20150622         | MX20140013963      | 20130515         |
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| US2013331823 AA    | 20131212         | US20130894323      | 20130514         |
| US2015100045 AA    | 20150409         | US20130401356      | 20130515         |
| US2016367737 AA    | 20161222         | US20160250724      | 20160829         |
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| WO13171585 A3      | 20140327         | WO20131B01513      | 20130515         |
| WO13171585 A9      | 20141218         | WO20131B01513      | 20130515         |
| ZA201408307 A      | 20160127         | ZA20140008307      | 20141112         |

**Priority:**

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| US20120647397P | 20120515 | US20120678563P | 20120801 | US20120729288P | 20121121 |
| US20130791984P | 20130315 | US20130894323  | 20130514 | US20130401356  | 20130515 |
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| US20170406585  | 20170113 |                |          |                |          |

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW ; SMITH AND NEWPHEW PLC

**Assignee(s):** SMITH AND NEPHEW MEDICAL LTD ; TJ SMITH AND NEPHEW LTD ; MOY TOM ; MULLEN PAUL ; WALSH PHILIP ; SMITH AND NEPHEW PLC15 ADAM STREETWC2N 6LALONDONGB ; STACEY GARY ; PRYOR NEIL ; NORMAN ALEX DAVID ; RIVA CHRISTIAN ; NICOLINI DEREK ; WALSH PHILIP ; ALLEN JULIE ; ASKEM BEN ALAN ; BECKETT TREVOR JOHN ; BINDER IAN ; FERRARI IACOPO CLAUDIO ; MEHTA STEVEN CARL ; COLLINSON SARAH JENNY ; MARSHALL KEITH ; GOWANS PHILIP ; HERD MATTHEW JAMES ; COWAN HUGHES JOHN ; FRYER CHRISTOPHER JOHN ; SMITH AND NEPHEW PLC

**Inventor(s):** (std): ALLEN JULIE ; ASKEM BEN ALAN ; BECKETT TREVOR JOHN ; BINDER IAN ; COLLINSON SARAH JENNY ; COWAN HUGHES JOHN ; FERRARI IACOPO CLAUDIO ; FERRARI IACOPO CLAUDIO ; FRYER CHRISTOPHER JOHN ; GOWANS PHILIP ; HERD MATTHEW JAMES ; MARSHALL KEITH ; MEHTA STEVEN CARL ; MOY TOM ; MULLEN PAUL ; NICOLINI DEREK ; NORMAN ALEX DAVID ; TREVOR JOHN BECKETT ; TOM MOY ; STEVEN CARL MEHTA ; SARAH JENNY COLLINSON ; PHILLIP GOWANS ; PHILIP WALSH ; PAUL MULLEN ; NEIL PRYOR ; MATTHEW JAMES HERD ; KEITH MARSHALL ; JULIE ALLEN ; JOHN COWAN HUGHES ; IAN BINDER ; IACOPO CLAUDIO FERRARI ; GARY STACEY ; DEREK NICOLINI ; CHRISTOPHER JOHN FRYER ; CHRISTIAN RIVA ; BEN ALAN ASKEM ; ALEX DAVID NORMAN ; NORMAN ALEXANDER DAVID ; PRYOR NEIL ; RIVA CHRISTIAN ; STACEY GARY ; WALSH PHILIP ; WALSH PHILIP

**Inventor(s):** WALSH PHILIPGB ; STACEY GARYGB ; RIVA CHRISTIANMU ; PRYOR NEILGB ; NORMAN ALEX DAVIDGB ; NICOLINI DEREKGB ; MULLEN PAULGB ; MOY TOMGB ; MEHTA STEVEN CARLGB ; MARSHALL KEITHGB ; HERD MATTHEW JAMESGB ; GOWANS PHILIPGB ; FRYER CHRISTOPHER JOHNGB ; FERRARI IACOPO CLAUDIOMU ; COWAN HUGHES JOHNGB ; COLLINSON SARAH JENNYGB ; BINDER IANGB ; BECKETT TREVOR JOHNGB ; ASKEM BEN ALANGB ; ALLEN JULIEGB

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SMITH AND NEPHEW; KNOBBE MARTENS OLSON AND BEAR LLP

**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 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:** APPARATUSES AND METHODS FOR NEGATIVE PRESSURE WOUND THERAPY

**Abstract:** 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 towards wound dressings comprising 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. 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):** A61F A61F13/00 A61F13/02 A61M A61M1/00

A61M27/00 (Advanced/Invention);

A61M35/00 (Advanced/Non-invention);

A61M1/00 (Core/Invention)

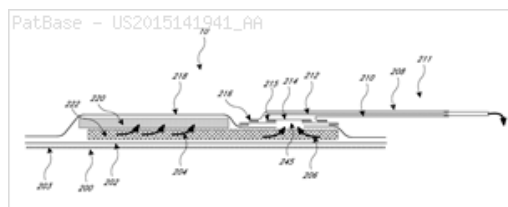
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A61M1/0088 A61M1/0003 A61M1/008 A61F13/0216 A61M1/0086

A61M2205/7536 A61M2205/583

**US:** 604/319 D24/129 D24/129 D24/189

**Locarno class:** 24/02 24/01



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2013264934 AA    | 20131128         | AU20130264934      | 20130522         |
| AU2013264934 AH    | 20150219         | AU20130264934      | 20130522         |
| AU2013264934 BB    | 20170720         | AU20130264934      | 20130522         |
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| IN09887DN2014 A    | 20160831         | IN2014DN09887      | 20141121         |
| JP2015520647 T2    | 20150723         | JP20150513291T     | 20130522         |
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| US2018168869 AA    | 20180621         | US20180890218      | 20180206         |
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| USD806242 S1       | 20171226         | US20160581840F     | 20161021         |
| USD806243 S1       | 20171226         | US20160581843F     | 20161021         |
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| WO13175306 A3      | 20140327         | WO2013IB01469      | 20130522         |
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**Priority:**

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| US20120650904P | 20120523 | US20130785927P | 20130314 | AU20130264934  | 20130522 |
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| US20160581840F | 20161021 | US20160581843F | 20161021 | US20160581835F | 20161021 |
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**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW PLC ; SMITH AND NEPHEW

**Assignee(s):** NICOLINI DEREK ; SMITH AND NEPHEW PLC15 ADAM STREETWC2N 2LALONDONGB ; MEHTA STEVEN CARL ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW MEDICAL LTD ; SMITH AND NEPHEW MEDICAL NO 605496 LTD ; ZAGRABSKI CAROL ; TJ SMITH AND NEPHEW LTD ; ALLEN JULIE ; ASKEM BEN ALAN ; COLLINSON SARAH JENNY ; GOWANS PHILIP

**Inventor(s):** (std): ALLEN JULIE ; ASKEM BEN ALAN ; BEN ALAN ASKEM ; CAROL ZAGRABSKI ; COLLINSON SARAH ; COLLINSON SARAH JENNY ; JULIE ALLEN ; MEHTA STEVEN ; MEHTA STEVEN CARL ; DEREK NICOLINI ; GOWANS PHILIP ; NICOLINI DEREK ; PHILIP GOWANS ; PHILLIP GOWANS ; SARAH JENNY COLLINSON ; STEVEN CARL MEHTA ; ZAGRABSKI CAROL

**Inventor(s):** ZAGRABSKI CAROL CHEEKOWAGA ; ZAGRABSKI CAROLUS ; NICOLINI DEREKGB ; GOWANS PHILIPGB ; MEHTA STEVEN CARLGB ; COLLINSON SARAH JENNYGB ; ASKEM BEN ALANGB ; ALLEN JULIEGB

**Agent(s):** GRIFFITH HACK ; BORDEN LADNER GERVAIS LLP ; MURGITROYD AND CO ; SMITH AND NEPHEW ; ELZABURU SLP ELZABURU SLP ; KNOBBE MARTENS OLSON AND BEAR LLP

**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

**Title:** WOUND DRESSING AND METHOD OF TREATMENT

**Abstract:** Embodiments disclosed herein are directed to negative pressure treatment systems and wound dressing systems, apparatuses, and methods that may be used for the treatment of wounds. In particular, some embodiments are directed to improved wound dressings comprising an obscuring layer that may hide fluid contained therein. Some embodiments may further comprise one or more viewing windows disposed therethrough so as to enable monitoring or examination of fluids contained therein.

**Classifications:**

**International (IPC 8-9):** A61F A61F13/00 A61F13/02 A61F13/15

A61F13/537 A61L15/16 A61L15/24 A61L15/26 A61L15/28 A61M1/00

A61M27/00 (Advanced/Invention);

A61F13/00 A61F13/02 (Core/Invention)

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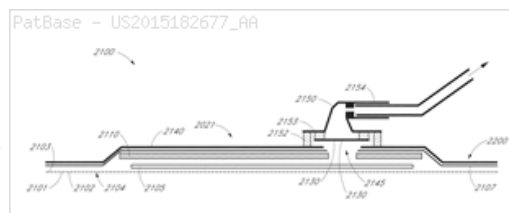
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A61F2013/00182 A61F2013/00497 A61F2013/00519 A61F2013/00846

**US:** 604/319 604/367

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2013298195 AA    | 20140206         | AU20130298195      | 20130731         |
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| EP2879636 A1       | 20150610         | EP20130770970      | 20130731         |
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| JP2018122117 A2    | 20180809         | JP20180044041      | 20180312         |
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| MX353782 B         | 20180129         | MX20150001521      | 20130731         |
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| US2015190286 AA    | 20150709         | US20130418908      | 20130731         |
| US2015216733 AA    | 20150806         | US20130418874      | 20130731         |
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| WO14020440 A1      | 20140206         | WO20131B02060      | 20130731         |
| WO14020443 A2      | 20140206         | WO20131B02102      | 20130731         |
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| ZA201500530 A      | 20151223         | ZA20150000530      | 20150123         |
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**Priority:**

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| JP20150524868T | 20130731 | WO20131B02102  | 20130731 | WO20131B02060  | 20130731 |
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**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW PCL ; SMITH AND NEPHEW

**Assignee(s):** NICOLINI DEREK ; RUSSELL MARK ; MEHTA STEVEN CARL ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW MEDICAL LTD ; ZAGRABSKI CAROL ; TJ SMITH AND NEPHEW LTD ; SMITH NEPHEW PLC ; ALLEN JULIE ; ASKEM BEN ALAN ; COLLINSON SARAH JENNY ; GOWANS PHILIP ; SMITH AND NEPHEW PLC

**Inventor(s):** (std): ALLEN JULIE ; ASKEM BEN ALAN ; BEN ALAN ASKEM ; CAROL ZAGRABSKI ; COLLINSON SARAH JENNY ; DEREK NICOLINI ; GOWANS PHILIP ; JULIE ALLEN ; MARK RUSSELL ; MEHTA STEVEN CARL ; NICOLINI DEREK ; PHILIP GOWANS ; RUSSELL MARK ; SARAH JENNY COLLINSON ; STEVEN CARL MEHTA ; ZAGRABSKI CAROL

**Inventor(s):** ZAGRABSKI CAROL CHEEKTOWAGA ; STEVENCARL MEHTA

**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; SMITH AND NEPHEW; DE ELZABURU ALBERTO; ZEHRA YILDIRIM; KNOBBE MARTENS OLSON AND BEAR LLP

**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

**Title:** WOUND DRESSING AND METHOD OF TREATMENT

**Abstract:** Embodiments disclosed herein are directed to negative pressure treatment systems and wound dressing systems, apparatuses, and methods that may be used for the treatment of wounds. In particular, some embodiments are directed to improved wound dressings comprising a bridge portion connecting two or more portions of an absorbent layer that facilitates trimming of the wound dressing to suitable sizes. Some embodiments provide for trimming the dressing in a gap between two or more portions of an absorbent layer and sealing the exposed portion of dressing after trimming when the dressing is applied to skin surrounding a wound.

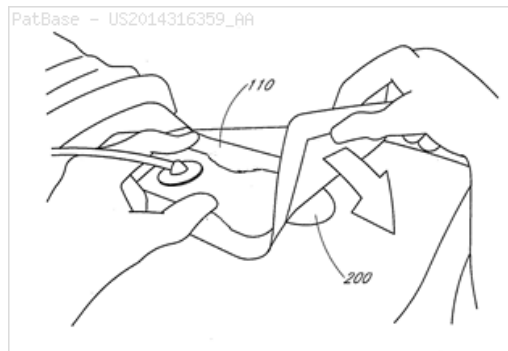
**Classifications:****International (IPC 8-9):** A61F13/00 A61F13/02 A61L A61L15/16

A61L15/26 A61L15/42 A61L15/58 A61M1/00

A61M27/00 (Advanced/Invention)

**CPC:** A61F13/0209 A61F13/0253 A61L15/425 A61L15/26 A61M1/0088

A61F13/00029 A61F13/00068 A61F13/0216 A61L15/42 A61L15/58

**US:** 604/319**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2014229777 AA    | 20140918         | AU20140229777      | 20140314         |
| AU2014229777 BB    | 20180308         | AU20140229777      | 20140314         |
| AU2014229779 AA    | 20140918         | AU20140229779      | 20140314         |
| AU2014229779 BB    | 20171102         | AU20140229779      | 20140314         |
| BR112015020855 A2  | 20170718         | BR20151120855      | 20140314         |
| BR112015022444 A2  | 20170718         | BR20151122444      | 20140314         |
| CA2902392 AA       | 20150825         | CA20142902392      | 20140314         |
| CA2902396 AA       | 20150825         | CA20142902396      | 20140314         |
| CN105188780 A      | 20151223         | CN201480027909     | 20140314         |
| CN105407932 A      | 20160316         | CN201480027911     | 20140314         |
| EP2968647 A1       | 20160120         | EP20140715393      | 20140314         |
| EP2968648 A1       | 20160120         | EP20140715978      | 20140314         |
| GB201309662 A0     | 20130717         | GB20130009662      | 20130530         |
| GB201309709 A0     | 20130717         | GB20130009709      | 20130530         |
| IN07336DN2015 A    | 20160108         | IN2015DN07336      | 20150819         |
| IN07339DN2015 A    | 20160108         | IN2015DN07339      | 20150819         |
| JP2016511047 T2    | 20160414         | JP20150562321T     | 20140314         |
| JP2016516462 T2    | 20160609         | JP20150562322T     | 20140314         |
| RU2015143116 A     | 20170420         | RU20150143116      | 20140314         |
| RU2015143116 A3    | 20180212         | RU20150143116      | 20140314         |
| RU2015143729 A     | 20170421         | RU20150143729      | 20140314         |
| RU2015143729 A3    | 20180219         | RU20150143729      | 20140314         |
| US2014316359 AA    | 20141023         | US20140209907      | 20140313         |
| US2016120706 AA    | 20160505         | US20140776088      | 20140314         |
| US2016144084 AA    | 20160526         | US20140775494      | 20140314         |
| WO14140606 A1      | 20140918         | WO2014GB50781      | 20140314         |
| WO14140608 A1      | 20140918         | WO2014GB50786      | 20140314         |
| ZA201505925 A      | 20170329         | ZA20150005925      | 20150817         |
| ZA201505926 A      | 20160928         | ZA20150005926      | 20150817         |

**Priority:**

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| US20130800040P | 20130315 | US20130828604P | 20130529 | GB20130009662  | 20130530 |
| GB20130009709  | 20130530 | US20130829187P | 20130530 | US20130906865P | 20131120 |
| US20130907350P | 20131121 | US20140209907  | 20140313 | RU20150143116  | 20140314 |
| RU20150143729  | 20140314 | WO2014GB50781  | 20140314 | WO2014GB50786  | 20140314 |
| US20140776088  | 20140314 | US20140775494  | 20140314 |                |          |

**Probable Assignee:** SMITH AND NEPHEW PLC**Assignee(s):** (std): SMITH AND NEPHEW**Assignee(s):** SMITH AND NEPHEW PLC ; PHILLIPS MARCUS DAMIAN ; TJ SMITH AND NEPHEW LTD ; SMITH AND NEPHEW PUBLIC CO LTD ; COLLINSON SARAH JENNY ; FRY NICHOLAS CHARLTON ; GOWANS PHILIP ; HARTWELL EDWARD YERBURY**Inventor(s):** (std): COLLINSON SARAH JENNY ; EDWARD YERBURY HARTWELL ; FRY NICHOLAS CHARLTON ; GOWANS PHILIP ; HARTWELL EDWARD YERBURY ; MARCUS DAMIAN PHILLIPS ; NICHOLAS CHARLTON FRY ; PHILIP GOWANS ; PHILLIPS MARCUS DAMIAN ; PHILLIPS MARCUS DAMIAN ; SARAH JENNY COLLINSON**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SMITH AND NEPHEW; SMITH AND NEPHEW RESEARCH CENTRE**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW

MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM  
SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** LIQUID COLLECTION CONTAINER FOR A DEVICE FOR PROVIDING A VACUUM FOR MEDICAL APPLICATIONS, AND DEVICE

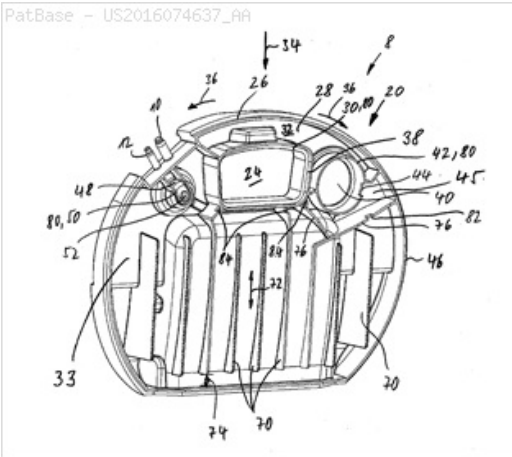
**Abstract:** A liquid collection container (8) for a device (2) for providing a vacuum for medical applications and for vacuum treatment of wounds in the human or animal body. The device (2) has a first housing part (4) having a vacuum-generating apparatus and the container (8) for collecting bodily fluids. The container (8) has a grip opening (24) formed for manual gripping, wherein an inner volume of the container (8) also extends into a region (28) adjacent to a wall (30) that bounds the grip opening (24). The region (28) adjacent to a wall (30) that bounds the grip opening (24) is formed by at least one chamber (32) in the interior of the container (8), that chamber being closed off in such a manner that it does not communicate with other, in particular adjacent chambers (40, 48, 45) in the interior of the container (8).

**Classifications:**

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

**CPC:** A61M1/0088 A61M27/00 A61M1/0001 Y10S229/91

**US:** 604/543



**Family:**

| Publication number | Publication date | Application number | Application date |
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| BR112015025161 A2  | 20170829         | BR20151125161      | 20140429         |
| CN105188794 A      | 20151223         | CN201480025189     | 20140429         |
| DE102013208107 A1  | 20141106         | DE201310208107     | 20130503         |
| EP2991697 A1       | 20160309         | EP20140723751      | 20140429         |
| RU2015148334 A     | 20170607         | RU20150148334      | 20140429         |
| RU2015148334 A3    | 20180129         | RU20150148334      | 20140429         |
| US2016074637 AA    | 20160317         | US20140784286      | 20140429         |
| WO14177544 A1      | 20141106         | WO2014EP58690      | 20140429         |

**Priority:**

DE201310208107 20130503      RU20150148334 20140429      WO2014EP58690 20140429

**Probable Assignee:** PAUL HARTMANN AG

**Assignee(s):** (std): HARTMANN PAUL AG

**Assignee(s):** PAUL HARTMANN AG

**Inventor(s):** (std): CROIZAT PIERRE ; ECKSTEIN AXEL ; KIRSTEN JUANA

**Inventor(s):** PIERRE CROIZAT ; JUANA KIRSTEN ; AXEL ECKSTEIN

**Agent(s):** DREISS PATENTANWALTE PARTG MBB

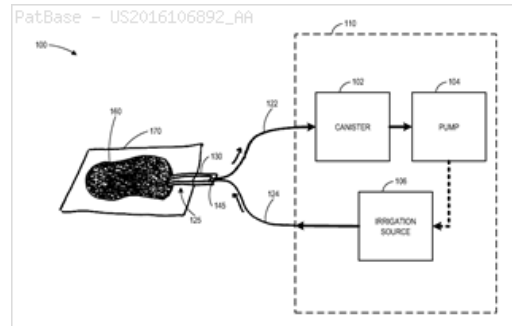
**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT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

**Title:** FLUIDIC CONNECTOR FOR IRRIGATION AND ASPIRATION OF WOUNDS

**Abstract:** Disclosed herein are several embodiments of a negative pressure apparatus and methods of using the same in the treatment of wounds. Some embodiments are directed towards improved fluidic connectors configured to transmit irrigation fluid and to apply aspiration to a wound, for example using softer, kink-free conformable layers. Some embodiments may comprise a first channel for delivering irrigation fluid to the wound and a second channel for transmitting negative pressure and removing fluid comprising irrigation fluid and wound exudate from the wound, wherein the channels comprise a flexible spacer material. Some embodiments are directed toward an irrigation manifold attachable to or incorporated as part of a distal end of an irrigation and aspiration fluidic connector.

**Classifications:****International (IPC 8-9):** A61F13/00 A61F5/00 A61L15/16 A61M1/00

A61M27/00 A61M3/02 A61M39/10 A61P17/02 (Advanced/Invention)

**CPC:** A61M1/0086 A61M3/0279 A61M39/105 A61M1/0088 A61F13/00068 A61M1/0084**US:** 604/304 604/307**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2014266943 AA    | 20141120         | AU20140266943      | 20140506         |
| AU2014266943 BB    | 20180301         | AU20140266943      | 20140506         |
| BR112015027696 A2  | 20170829         | BR20151127696      | 20140506         |
| CA2910854 AA       | 20151028         | CA20142910854      | 20140506         |
| CN105188795 A      | 20151223         | CN201480026510     | 20140506         |
| CN105188795 B      | 20180731         | CN201480026510     | 20140506         |
| EP2994176 A2       | 20160316         | EP20140759279      | 20140506         |
| IN11229DN2015 A    | 20160527         | IN2015DN11229      | 20151209         |
| JP2016518936 T2    | 20160630         | JP20160512441T     | 20140506         |
| RU2015152082 A     | 20170616         | RU20150152082      | 20140506         |
| RU2015152082 A3    | 20180321         | RU20150152082      | 20140506         |
| US2016106892 AA    | 20160421         | US20140889825      | 20140506         |
| US10010658 BB      | 20180703         | US20140889825      | 20140506         |
| WO14184674 A2      | 20141120         | WO2014IB01682      | 20140506         |
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**Priority:**

US20130822254P 20130510 RU20150152082 20140506 WO2014IB01682 20140506  
US20140889825 20140506

**Probable Assignee:** SMITH AND NEPHEW PLC**Assignee(s):** (std): SMITH AND NEPHEW**Assignee(s):** SMITH AND NEPHEW PLC ; TJ SMITH AND NEPHEW LTD ; SMITH AND NEPHEW PUBLIC CO LTD ; HARTWELL EDWARD YERBURY ; HARTWELL EDWARD YERBURY**Inventor(s):** (std): HARTWELL EDWARD YERBURY ; HARTWELL EDWARD YERBURY**Inventor(s):** EDWARD YERBURY HARTWELL**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SMITH AND NEPHEW; KNOBBE MARTENS OLSON AND BEAR LLP

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

**Title:** PH INDICATOR DEVICE AND FORMULATION

**Abstract:** Disclosed herein are devices and methods for determining the pH of fluid. Example devices include a device comprising a surface configured to contact the fluid and a pH indicator covalently bound thereto, wherein the pH indicator has a first colour prior to contact with the fluid and changes colour as a function of the pH of the fluid.

**Classifications:**

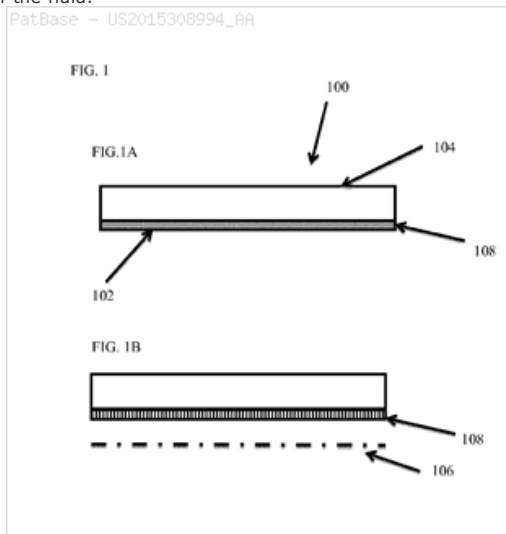
**International (IPC 8-9):** G01N G01N21/80 G01N31/00

G01N31/22 (Advanced/Invention);

A61B5/145 A61F13/42 G01N21/80 G01N27/416 (Advanced/Non-invention)

**CPC:** G01N31/221 A61B5/14539 A61F2013/427 G01N21/80 G01N27/4165

**US:** 422/82.05 436/163 534/558 534/683



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2014333841 AA    | 20150416         | AU20140333841      | 20141008         |
| BR112015015287 A2  | 20170711         | BR20151115287      | 20141008         |
| CA2895628 AA       | 20150618         | CA20142895628      | 20141008         |
| CN105593679 A      | 20160518         | CN201480055581     | 20141008         |
| CN105593679 B      | 20180306         | CN201480055581     | 20141008         |
| CN108204972 A      | 20180626         | CN201810101457     | 20141008         |
| EP3055689 A1       | 20160817         | EP20140799354      | 20141008         |
| GB201317746 A0     | 20131120         | GB20130017746      | 20131008         |
| IN04727DN2015 A    | 20151127         | IN2015DN04727      | 20150601         |
| JP2016535856 A2    | 20161117         | JP20160547231      | 20141008         |
| JP2016535856 T2    | 20161117         | JP20160547231T     | 20141008         |
| RU2015139562 A     | 20171116         | RU20150139562      | 20141008         |
| RU2015139562 A3    | 20180627         | RU20150139562      | 20141008         |
| US2015308994 AA    | 20151029         | US20140650547      | 20141008         |
| US2018196021 AA    | 20180712         | US20170804748      | 20171106         |
| US9829471 BB       | 20171128         | US20140650547      | 20141008         |
| WO15052225 A1      | 20150416         | WO2014EP71520      | 20141008         |
| ZA201503770 A      | 20160330         | ZA20150003770      | 20150526         |

**Priority:**

|                        |                         |                        |
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| GB20130017746 20131008 | CN201480055581 20141008 | WO2014EP71520 20141008 |
| RU20150139562 20141008 | US20150650547 20150608  | US20170804748 20171106 |

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW

**Assignee(s):** SMITH AND NEPHEW PLC ; SMITH AND NEPHEW PUBLIC CO LTD ; TJ SMITH AND NEPHEW LTD ; HAMMOND VICTORIA JODY ; HICKS JOHN KENNETH

**Inventor(s):** (std): HAMMOND VICTORIA JODY ; HICKS JOHN KENNETH ; JOHN KENNETH HICKS ; VICTORIA JODY HAMMOND

**Inventor(s):** HICKS JOHN ; HAMMOND VICTORIA

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

Title: ABSORBENT CONDUIT AND SYSTEM

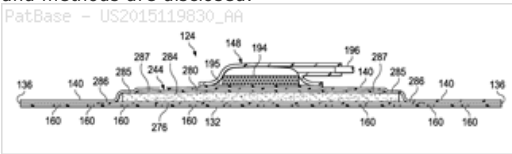
**Abstract:** A conduit for treating a tissue site with reduced pressure may include a primary lumen and at least one secondary lumen. A wall of the conduit may include a first wall material and a second wall material. The first wall material may comprise a substantially non-absorbent material that is vapor impermeable and liquid impermeable. The second wall material may comprise an absorbent material that is vapor permeable and liquid impermeable. The second wall material may be positioned in fluid contact with the at least one secondary lumen. Other systems, apparatus, and methods are disclosed.

Classifications:

**International (IPC 8-9):** A61F13/00 A61F13/02 A61F13/84 A61M1/00 A61M39/00 A61M39/10 (Advanced/Invention)

**CPC:** A61M1/0088 A61F13/0206 A61F13/00042 A61F13/00051 A61F13/00068 A61F13/84 A61F2013/00174 A61F2013/00246 A61F2013/8408

**US:** 604/319



Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EP3062833 A1       | 20160907         | EP20140782001      | 20140919         |
| US2015119830 AA    | 20150430         | US20140490870      | 20140919         |
| US2018161213 AA    | 20180614         | US20180884198      | 20180130         |
| US9925092 BB       | 20180327         | US20140490870      | 20140919         |
| WO15065615 A1      | 20150507         | WO2014US56566      | 20140919         |

Priority:

US20130897669P 20131030      US20140490870 20140919      WO2014US56566 20140919  
US20180884198 20180130

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Assignee(s):** KCI USA INC ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS

**Inventor(s):** (std): LOCKE CHRISTOPHER BRIAN ; LUCKEMEYER JAMES A ; ROBINSON TIMOTHY MARK

**Agent(s):** HUANG CHONGGUANG; WELCH GERALD T ET AL

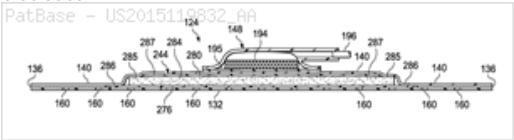
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**Title:** DRESSING WITH SEALING AND RETENTION INTERFACE

**Abstract:** A dressing for treating a tissue site may include a base layer, a sealing member, a first and a second wicking layer, and an absorbent layer. The base layer may have a periphery surrounding a central portion and a plurality of apertures disposed through the periphery and the central portion. At least one of the apertures in the periphery may be positioned at an edge of the periphery, and may have an interior exposed at the edge. The sealing member and the base layer may define an enclosure. The first and the second wicking layer may each be disposed in the enclosure with the absorbent layer positioned between the first and the second wicking layer. Other dressings, systems, and methods are disclosed.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02 A61M1/00 A61M27/00 (Advanced/Invention)  
**CPC:** A61F13/00063 A61M1/0088 A61M1/0086 A61F13/0206 A61F13/0223 A61F2013/0028 A61F2013/00323 A61F13/00068 A61F13/0216  
**US:** 604/319



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2015119832 AA    | 20150430         | US20140490898      | 20140919         |
| US2018214312 AA    | 20180802         | US20180937485      | 20180327         |
| US9956120 BB       | 20180501         | US20140490898      | 20140919         |
| WO15065616 A1      | 20150507         | WO2014US56594      | 20140919         |

**Priority:**

US20130897663P 20131030      US20140490898 20140919      US20180937485 20180327

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Assignee(s):** KCI USA INC ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS

**Inventor(s):** (std): LOCKE CHRISTOPHER BRIAN

**Agent(s):** WELCH GERALD T 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** DRESSING WITH DIFFERENTIALLY SIZED PERFORATIONS

**Abstract:** A dressing for treating a tissue site may include a base layer, a sealing member, a first and a second wicking layer, and an absorbent layer. The base layer may have a periphery surrounding a central portion and a plurality of apertures disposed through the periphery and the central portion. The apertures in the periphery may be larger than the apertures in the central portion. The sealing member and the base layer may define an enclosure. The first and the second wicking layer may each be disposed in the enclosure with the absorbent layer positioned between the first and the second wicking layer. Other dressings, systems, and methods are disclosed.

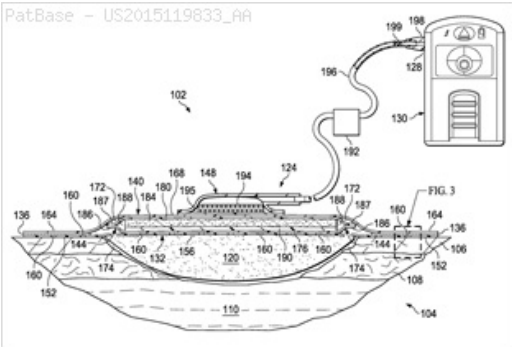
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**International (IPC 8-9):** A61F13/00 A61F13/02 A61M1/00

A61M27/00 (Advanced/Invention)

**CPC:** A61M1/0088 A61M1/0066 A61F13/00068 A61F13/0216 A61F13/022 A61F2013/0028 A61F2013/00174 A61F2013/00719

**US:** 604/319



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2014342903 AA    | 20150507         | AU20140342903      | 20140919         |
| CA2926932 AA       | 20160408         | CA20142926932      | 20140919         |
| CN105682623 A      | 20160615         | CN201480058799     | 20140919         |
| DE602014007230 D1  | 20170413         | DE201460007230T    | 20140919         |
| DE602014024707 D1  | 20180524         | DE201460024707T    | 20140919         |
| EP3062752 A1       | 20160907         | EP20140783710      | 20140919         |
| EP3062752 B1       | 20170301         | EP20140783710      | 20140919         |
| EP3173054 A1       | 20170531         | EP20170152232      | 20140919         |
| EP3173054 B1       | 20180425         | EP20170152232      | 20140919         |
| ES2670710 T3       | 20180531         | ES20170152232T     | 20140919         |
| TR201807060 T4     | 20180621         | TR20180007060T     | 20140919         |
| US2015119833 AA    | 20150430         | US20140490918      | 20140919         |
| US10016544 BB      | 20180710         | US20140490918      | 20140919         |
| WO15065614 A1      | 20150507         | WO2014US56524      | 20140919         |

**Priority:**

US20130897640P 20131030 EP20140783710 20140919 EP20170152232 20140919  
US20140490918 20140919 WO2014US56524 20140919

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Assignee(s):** KCI LICENSING INC SAN ANTONIO ; KCI USA INC ; LOCKE CHRISTOPHER BRIAN ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; COULTHARD RICHARD DANIEL JOHN

**Inventor(s):** (std): LOCKE CHRISTOPHER BRIAN ; COULTHARD RICHARD DANIEL JOHN

**Inventor(s):** COULTHARD RICHARD DANIEL JOHN VERWOOD ; LOCKE CHRISTOPHER BRIAN BOURNEMOUTH ; RICHARD DANIEL JOHN COULTHARD ; CHRISTOPHER BRIAN LOCKE

**Agent(s):** SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; POTTS SUSAN PATRICIA; CORDINA KEVIN JOHN; CMS CAMERON MCKENNA NABARRO OLSWANG LLP; ELZABURU SLP ELZABURU SLP; UGUR GUERSAD YALCINER; WELCH GERALD T 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** PHOTOTHERAPY DRESSING FOR TREATING PSORIASIS

**Abstract:** Methods and apparatuses for phototherapy to treat skin disorders. In particular, described herein are phototherapy dressings for use with phototherapy UV light applicators (sources) to treat skin disorders such as psoriasis. The dressings described herein may include a support body onto which a medicament formed of a hydrogel and coal tar and/or coal tar extract is held. The dressing may be configured so that at least half (50 percent) of the UV light within a therapeutic range of wavelengths is through the dressing including the medicament to the patient's skin. The dressings may be adapted for use in conjunction with a phototherapy UV light sources.

**Classifications:**

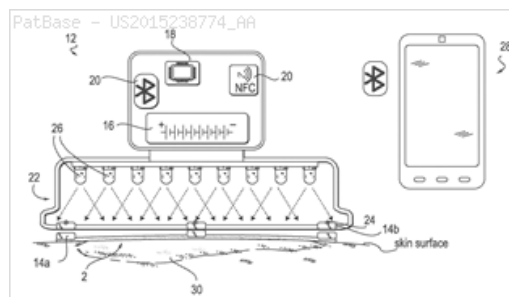
**International (IPC 8-9):** A61F13/00 A61F13/02 A61K35/04 A61K9/70 A61L26/00 A61N5/06 A61Q19/00 (Advanced/Invention);

A61N5/06 (Advanced/Non-invention)

**CPC:** A61N2005/0645 A61N2005/0661 A61F13/0213 A61N5/0616 A61F13/00063 A61K35/04 A61L26/0066 A61F13/0206 A61K9/7023

A61L15/44 Y10S514/863

**US:** 1/1 604/20



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2015223035 AA    | 20150903         | AU20150223035      | 20150226         |
| CN106573155 A      | 20170419         | CN201580021752     | 20150226         |
| EP3113849 A2       | 20170111         | EP20150755440      | 20150226         |
| EP3113849 A4       | 20171206         | EP20150755440      | 20150226         |
| JP2017510342 T2    | 20170413         | JP20160554634T     | 20150226         |
| KR20170023776 A    | 20170306         | KR20167026625      | 20150226         |
| US2015238774 AA    | 20150827         | US20150632161      | 20150226         |
| US2016287896 AA    | 20161006         | US20160187614      | 20160620         |
| US9370449 BB       | 20160621         | US20150632161      | 20150226         |
| US10058711 BB      | 20180828         | US20160187614      | 20160620         |
| WO15130891 A2      | 20150903         | WO2015US17664      | 20150226         |
| WO15130891 A3      | 20151203         | WO2015US17664      | 20150226         |

**Priority:**

US20140944755P 20140226 US20140049366P 20140912 US20150632161 20150226  
 WO2015US17664 20150226 US20160187614 20160620

**Probable Assignee:** LUMA THERAPEUTICS INC

**Assignee(s):** (std): ANDERSON EVAN ; DUGAN STEPHEN ; ILLUMICURE INC ; LUMA THERAPEUTICS INC ; PELL CHRISTOPHER ; MARTOS ADAM

**Inventor(s):** (std): ANDERSON EVAN ; DUGAN STEPHEN ; MARTOS ADAM ; PELL CHRISTOPHER ; VAUGHN BEAU

**Agent(s):** PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PRICE NIGEL JOHN KING; SHAY GLENN LLP; HUDAK JESSICA ANNE ET AL

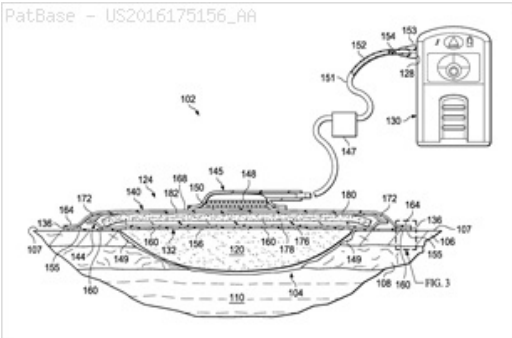
**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT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

**Title:** DRESSING WITH OFFLOADING CAPABILITY

**Abstract:** Illustrative embodiments of a dressing for treating a tissue site may include a fluid transport layer, an offloading layer, and a liquid deflector. The offloading layer may be in fluid communication with the fluid transport layer, and the offloading layer may include a force offloading region and a target region. The liquid deflector may be positioned between the fluid transport layer and the offloading layer. The liquid deflector may be configured to deflect a liquid from the tissue site into contact with the target region of the offloading layer. The target region may be configured to expand for offloading forces at the tissue site. Other dressings, systems, and methods are disclosed.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02  
A61M1/00 (Advanced/Invention)  
**CPC:** A61F13/00029 A61F13/00042 A61M1/0088 A61F13/00055  
A61F13/0203 A61F13/0223 A61F13/00068 A61F13/0216  
**US:** 604/318 604/319



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EP3233001 A1       | 20171025         | EP20150820380      | 20151210         |
| US2016175156 AA    | 20160623         | US20150965675      | 20151210         |
| WO16100098 A1      | 20160623         | WO2015US65135      | 20151210         |

**Priority:**

US20140092991P 20141217      US20150965675 20151210      WO2015US65135 20151210

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Assignee(s):** KCI USA INC ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS

**Inventor(s):** (std): LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK

**Agent(s):** CMS CAMERON MCKENNA NABARRO OLSWANG LLP; MILLER CHRIS K 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

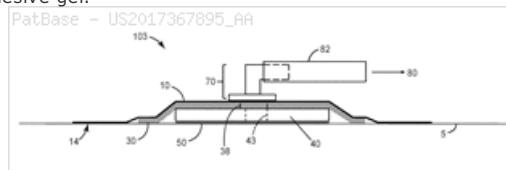
**Title:** NEGATIVE PRESSURE WOUND DRESSING WITH ABSORBENT ADHESIVE SEALANT LAYER

**Abstract:** A wound dressing is provided. The dressing includes a moisture-transmissible backing layer having a first major surface, a second major surface, a backing layer perimeter, and a first opening; an absorbent adhesive gel adhered to the second major surface of the backing layer, the absorbent adhesive gel comprising an adhesive gel perimeter; and a porous layer having a first side, a second side, and a porous layer perimeter. The second major surface has a first adhesive disposed thereon. The first side of the porous layer is adhered to the absorbent adhesive gel. The porous layer is configured to facilitate passage of fluid to the first opening. One-hundred percent of the adhesive gel perimeter is overlapped by the backing layer. At least 50 percent of the porous layer perimeter is overlapped by the absorbent adhesive gel.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02 A61K45/00 A61K9/70 A61L15/22 A61L15/24 A61L15/26 A61L15/42 A61L15/44 A61L15/46 A61L15/58 A61L15/60 A61M27/00 A61P17/00 A61P17/02 (Advanced/Invention)

**CPC:** A61L15/46 A61F13/00068 A61F13/022 A61L15/22 A61L15/58 A61L15/44 A61F13/00063 A61F13/0266 A61F13/0216 A61F13/0206 A61L2300/404 A61L15/26 A61L15/24 A61F13/0253 A61L15/425 A61L15/60



**Family:**

| Publication number | Publication date | Application number | Application date |
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| ■ CN107106334 A    | 20170829         | CN201580071938     | 20151228         |
| ■ CN107106723 A    | 20170829         | CN201580071925     | 20151228         |
| ■ EP3240580 A1     | 20171108         | EP20150832852      | 20151228         |
| ■ EP3240581 A1     | 20171108         | EP20150832851      | 20151228         |
| ■ JP2018500137 T2  | 20180111         | JP20170534994T     | 20151228         |
| ■ JP2018508243 T2  | 20180329         | JP20170535053T     | 20151228         |
| ■ US2017367895 AA  | 20171228         | US20150539855      | 20151228         |
| ■ US2017367896 AA  | 20171228         | US20150539866      | 20151228         |
| ■ WO16109418 A1    | 20160707         | WO2015US67655      | 20151228         |
| ■ WO16109420 A1    | 20160707         | WO2015US67661      | 20151228         |

**Priority:**

US20140098058P 20141230 US20150112714P 20150206 WO2015US67661 20151228  
WO2015US67655 20151228 US20150539855 20151228 US20150539866 20151228

**Probable Assignee:** 3M CO

**Assignee(s):** (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO

**Inventor(s):** (std): FUNG SIMON S ; HOLM DAVID R ; SIERACKI JAMES M

**Agent(s):** VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; WILLIAMS MICHAEL G 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** WOUND TREATMENT METHOD AND APPARATUS

**Abstract:** A wound treatment method capable of promoting the treatment of a wound is provided. The wound treatment method comprising: placing a foam dressing at a wound site; sealing the wound site by attaching a film dressing to the skin adjacent to the wound site; lowering pressure in a sealed space, which is formed between the film dressing and the wound site, to a target negative pressure level by supplying negative pressure generated by a negative pressure generation unit to the sealed space; maintaining the pressure in the sealed space at the target negative pressure level for a first setting period; stopping the supply of the negative pressure for a second setting period, which follows the first setting period; and injecting a medication into the wound site within the second setting period.

**Classifications:**

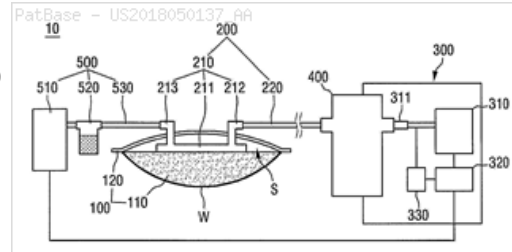
**International (IPC 8-9):** A61F13/00 A61F13/02 A61L15/44 A61M1/00

A61M27/00 A61M31/00 A61M35/00 A61M37/00 (Advanced/Invention)

**CPC:** A61M1/0031 A61M1/0088 A61M1/0025 A61F2013/00089 A61M27/00

A61F13/0216 A61M2205/3331 A61M1/00 A61M37/00 A61M1/006

A61M1/0062 A61M1/0084 A61M2205/3334

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CL2017002228 A1    | 20180316         | CL20170002228      | 20170904         |
| CN107889464 A      | 20180406         | CN201680014779     | 20160119         |
| CO20170008857 A2   | 20171110         | CO20170008857      | 20170830         |
| EP3269404 A1       | 20180117         | EP20160761884      | 20160119         |
| EP3269404 A4       | 20180829         | EP20160761884      | 20160119         |
| JP2018506392 T2    | 20180308         | JP20170545599T     | 20160119         |
| KR101637976 B1     | 20160708         | KR20150033105      | 20150310         |
| TW201632210 A      | 20160916         | TW20160105639      | 20160225         |
| TWI597076 B        | 20170901         | TW20160105639      | 20160225         |
| US2018050137 AA    | 20180222         | US20160556637      | 20160119         |
| WO16143997 A1      | 20160915         | WO2016KR00524      | 20160119         |
| WO16143997 A9      | 20161110         | WO2016KR00524      | 20160119         |

**Priority:**

KR20150033105 20150310 WO2016KR00524 20160119

**Probable Assignee:** CG BIO CO LTD

**Assignee(s):** (std): CG BIO CO LTD

**Assignee(s):** N A ; NOTE MESSAGE BIO ; STATE MESSAGE BIO ; CG BIO CO

**Inventor(s):** (std): HONG JOON PIO ; HONG SOON GEE ; JEON KANG JIN ; KIM HOON ; PARK HEE JUN ; RYU HYUN SEUNG ; SEO JUN HYUK

**Inventor(s):** SOON GEE HONG ; HEE JUN PARK ; JOON PIO HONG ; JUN HYUK SEO ; KANG JIN JEON ; HOON KIM ; HYUN SEUNG RYU

**Agent(s):** JARRY IP JARRY IP SPA; JUAN CARLOS CUESTA QUINTERO; EISENFUEHR SPEISER; TAKAISHI KITSUMA; KASAN IP AND LAW FIRM

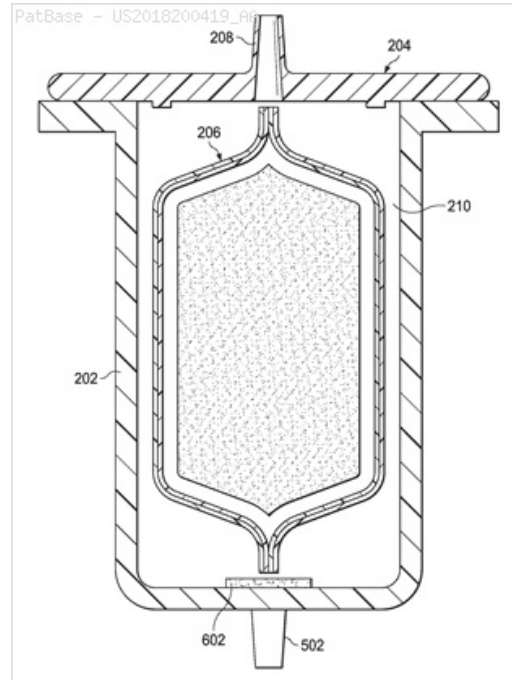
**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW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

**Title:** MULTI-ORIENTATION FLUID MANAGEMENT

**Abstract:** Apparatuses for multi-orientation fluid management are described. In some example embodiments, an apparatus for managing fluids and manifolding material. The fluid acquisition and manifolding material can provide a shell or envelope for capturing the fluid and distributing it to the absorbent core for storage. The manifolding material can distribute fluid as the absorbent core swells. The apparatus may additionally include an exudate container providing a casing for the absorbent core and the fluid acquisition and manifolding layers.

**Classifications:****International (IPC 8-9):** A61F13/00 A61M1/00

A61M27/00 (Advanced/Invention)

**CPC:** A61M1/0094 A61F13/00068 A61M1/0001 A61M1/0052 A61M1/0088  
A61M2205/21 A61M2205/7527 A61M2205/7536**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2016290828 AA    | 20170112         | AU20160290828      | 20160701         |
| CA2991403 AA       | 20180103         | CA20162991403      | 20160701         |
| EP3319656 A1       | 20180516         | EP20160741747      | 20160701         |
| JP2018519108 T2    | 20180719         | JP20170568196T     | 20160701         |
| US2018200419 AA    | 20180719         | US20160741578      | 20160701         |
| WO17007724 A1      | 20170112         | WO2016US40817      | 20160701         |

**Priority:**

US20150189609P 20150707 US20160741578 20160701 WO2016US40817 20160701

**Probable Assignee:** KCI LICENSING INC**Assignee(s):** (std): KCI LICENSING INC**Assignee(s):** LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK**Inventor(s):** (std): LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK**Agent(s):** SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; CMS CAMERON MCKENNA NABARRO OLSWANG LLP; KITA AOYAMA INT PATENT BUREAU; WELCH GERALD T 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

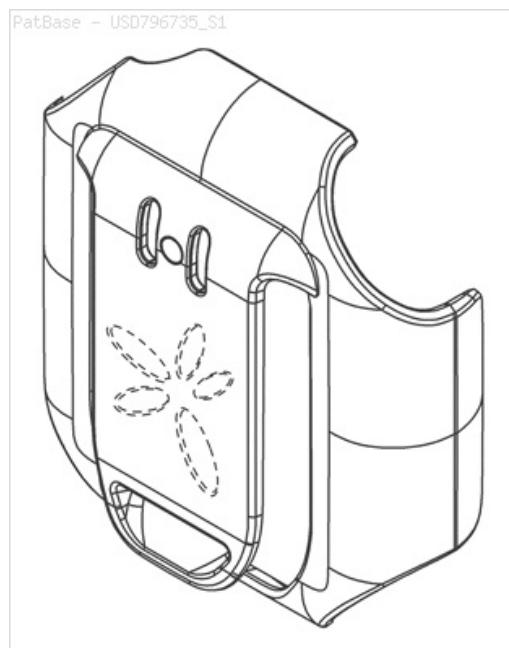
**Title:** MOUNT APPARATUS FOR PORTABLE NEGATIVE PRESSURE APPARATUS

**Abstract:** Source: JP1589986S **Machine translation:** The article is a medical device, it is to hold the negative pressure. As partial design expressed by the solid line in the portion to be provided with a design part. In each figure, the surface shape of the portion of the line represented by the line, but is instead, both representing a pattern representing the shape of the three-dimensional surface.

**Classifications:**

**US:** D27/107

**Locarno class:** 15/02 27/03 24/01



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ■ CN304056879 S    | 20170222         | CN201630425358F    | 20160826         |
| ■ JP1589986 S      | 20171106         | JP20160018360F     | 20160829         |
| ■ USD796735 S1     | 20170905         | US20160556363F     | 20160229         |

**Priority:**

US20160556363F 20160229

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW

**Assignee(s):** SMITH AND NEPHEW MEDICAL LTD ; SMITH AND NEPHEW PLC ; SMITH AND NEPHEW PUBLIC CO LTD ; TJ SMITH AND NEPHEW LTD ; SMITH AND NEPHEW PUBLIC LIMITED COMPANY ; SMITH AND CO IN OPEN REPAIR

**Inventor(s):** (std): FOLEGHI FABIO

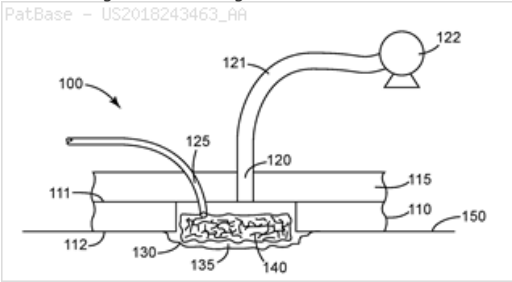
**Agent(s):** KNOBBE MARTENS OLSON AND BEAR LLP

**Title:** NEGATIVE PRESSURE WOUND THERAPY DRESSINGS COMPRISING (METH)ACRYLATE PRESSURE-SENSITIVE ADHESIVE WITH ENHANCED ADHESION TO WET SURFACES

**Abstract:** Negative pressure wound dressings comprising pressure-sensitive adhesives with enhanced adhesion to wet surfaces, obtained from crosslinking a pre-adhesive composition comprising poly(meth)acrylate macromolecules that comprise a number-average molecular weight of from about 25000 to about 200000, and methods of using such dressings.

**Classifications:**

**International (IPC 8-9):** A61F13/02 A61L15/16 A61L15/22 A61L15/58  
A61M1/00 C09J133/12 (Advanced/Invention)  
**CPC:** A61F13/00068 C09J133/12 A61F13/0263 A61F13/0253 A61L15/58  
A61F13/0216 A61M1/0088 C09J4/00



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ■ CN107920923 A    | 20180417         | CN201680048856     | 20160819         |
| ■ EP3344206 A1     | 20180711         | EP20160842587      | 20160819         |
| ■ US2018243463 AA  | 20180830         | US20160754203      | 20160819         |
| ■ WO17040074 A1    | 20170309         | WO2016US47884      | 20160819         |

**Priority:**

US20150212219P 20150831      US20160754203 20160819      WO2016US47884 20160819

**Probable Assignee:** 3M CO

**Assignee(s):** (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO

**Inventor(s):** (std): CHATTERJEE JOON ; FUNG SIMON S

**Agent(s):** VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; WOOD KENNETH B 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** HYBRID SILICONE AND ACRYLIC ADHESIVE COVER FOR USE WITH WOUND TREATMENT

**Abstract:** Sealing members and methods of manufacturing the same are described. A first film layer and a second film layer each having a first side and a second side can be provided. A first adhesive can be coupled to the second side of the first film layer to form a first adhesive layer. A second adhesive can be coupled to the second side of the second film layer to form a second adhesive layer, and a third adhesive can be coupled to the first side of the second film layer to form a third adhesive layer. One or more perforations can be formed through the third adhesive layer, the second film layer, and the second adhesive layer. A first side of the third adhesive layer can be coupled to a second side of the first adhesive layer.

**Classifications:**

**International (IPC 8-9):** A61F13/02 A61L15/26 A61L15/58 A61M1/00

B32B37/12 B32B38/04 B32B5/02 B32B7/12 (Advanced/Invention)

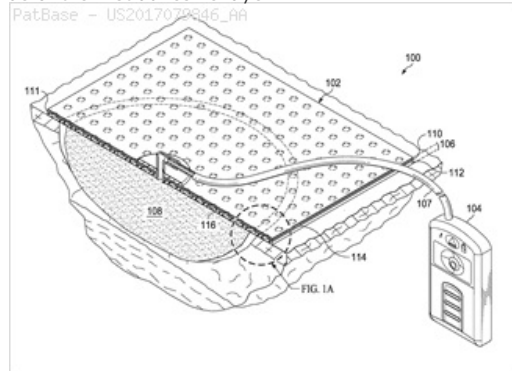
**CPC:** A61F13/0223 A61F13/0289 A61F13/0216 A61M1/0088 A61L15/26

A61L15/58 B32B37/12 B32B38/04 B32B5/02 B32B7/12 A61L2420/02

B32B2037/1253 B32B2038/047 B32B2307/726 B32B2535/00

A61F13/00068 A61F13/023 A61F13/025

**US:** 604/319



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EP3349807 A1       | 20180725         | EP20160781592      | 20160914         |
| US2017079846 AA    | 20170323         | US20160265718      | 20160914         |
| WO17048866 A1      | 20170323         | WO2016US51768      | 20160914         |

**Priority:**

US20150220064P 20150917      US20160265718 20160914      WO2016US51768 20160914

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Assignee(s):** KCI USA INC ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS

**Inventor(s):** (std): LOCKE CHRISTOPHER BRIAN ; ROBINSON TIMOTHY MARK

**Agent(s):** CMS CAMERON MCKENNA NABARRO OLSWANG LLP; CAUBLE CHRISTOPHER M 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 IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

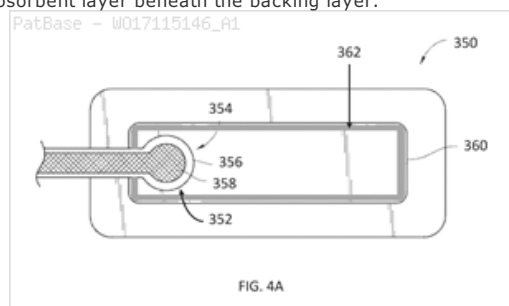
**Title:** ABSORBENT NEGATIVE PRESSURE WOUND THERAPY DRESSING

**Abstract:** Disclosed herein are several embodiments of a wound treatment apparatus employing glue on the backing layer of a wound dressing. In some embodiments, the glue limits saturation of an absorbent layer beneath the backing layer.

**Classifications:**

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

**CPC:** A61F13/0203 A61F13/0216 A61F13/0206 A61F13/022



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO17115146 A1      | 20170706         | WO20161801959      | 20161230         |

**Priority:**

US20150273053P 20151230

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW

**Assignee(s):** SMITH AND NEPHEW PLC

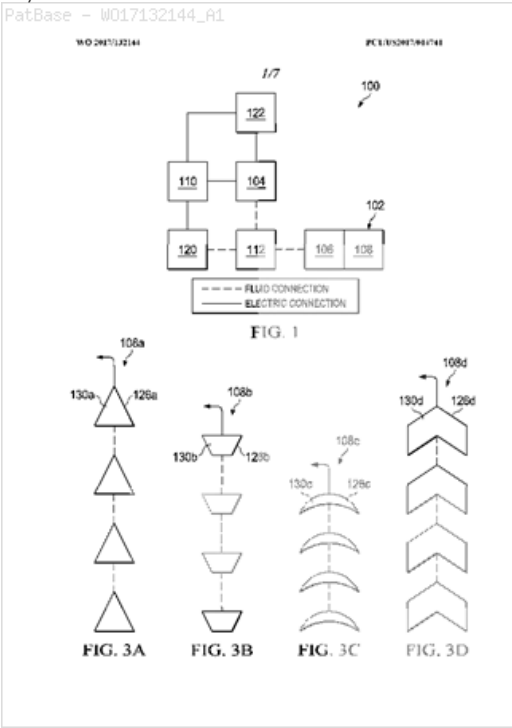
**Inventor(s):** (std): NOBLE STEPHANIE JANE ; GOWANS JOHN PHILIP

**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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VV VN ZA ZM ZW

Title: SEQUENTIAL COLLAPSE WAVEFORM DRESSING

**Abstract:** Example embodiments of an apparatus for tissue therapy may comprise a sequentially-collapsing tissue interface for use with negative pressure. More generally, some embodiments may include a first manifold and a second manifold fluidly coupled to the first manifold through a constricted fluid path. A fluid conductor may fluidly couple the second manifold to the first manifold in some embodiments. The fluid conductor may constrict fluid flow between the first manifold and the second manifold. The apparatus may additionally comprise a negative-pressure source fluidly coupled to the first manifold in some embodiments. A controller may be configured to operate a negative-pressure source to provide negative pressure to a tissue interface in a therapy sequence adapted to propagate a wave in the tissue site. Such motion may be particularly advantageous or beneficial for a variety of conditions, including lymphedema, edema, or venous insufficiency.

**Classifications:**  
**International (IPC 8-9):** A61F13/00 A61F13/02  
A61M1/00 (Advanced/Invention)  
**CPC:** A61M1/0088 A61F13/00068



Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO17132144 A1      | 20170803         | WO2017US14741      | 20170124         |

Priority:

US20160288167P 20160128

**Probable Assignee:** KCI LICENSING INC

**Assignee(s):** (std): KCI LICENSING INC

**Inventor(s):** (std): EDLUND CHESTER R ; MANWARING MICHAEL E

**Agent(s):** DEAVER DARIN W 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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

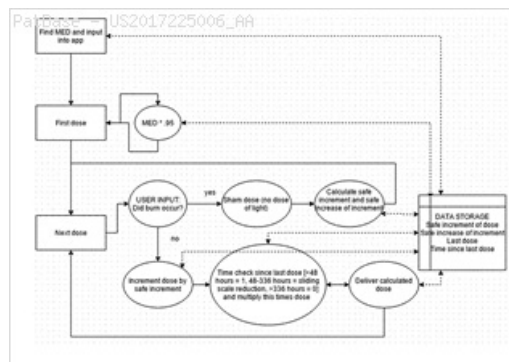
**Title:** METHODS, COMPOSITIONS AND APPARATUSES FOR TREATING PSORIASIS BY PHOTOTHERAPY

**Abstract:** Compositions, methods and apparatuses for phototherapy to treat skin disorders. In particular, described herein are methods, compositions, phototherapy dressings for use with phototherapy UV light applicators (sources) and phototherapy UV light applicators to treat skin disorders such as psoriasis.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02 A61K35/04 A61L26/00 A61N5/06 (Advanced/Invention)

**CPC:** A61N5/06 A61N5/0616 A61N2005/0645 A61N2005/0652 A61N2005/0661



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2017217839 AA    | 20170817         | AU20170217839      | 20170209         |
| US2017225006 AA    | 20170810         | US20170429139      | 20170209         |
| US9968800 BB       | 20180515         | US20170429139      | 20170209         |
| WO17139514 A1      | 20170817         | WO2017US17271      | 20170209         |

**Priority:**

US20160293314P 20160209      US20160427654P 20161129      US20170429139 20170209  
WO2017US17271 20170209

**Probable Assignee:** LUMA THERAPEUTICS INC

**Assignee(s):** (std): ANDERSON EVAN R ; LUMA THERAPEUTICS INC ; PELL CHRISTOPHER STEVEN

**Inventor(s):** (std): ANDERSON EVAN R ; MARTOS ADAM ; PELL CHRISTOPHER STEVEN

**Agent(s):** PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SHAY GLENN LLP; SHOOP RICHARD D 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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

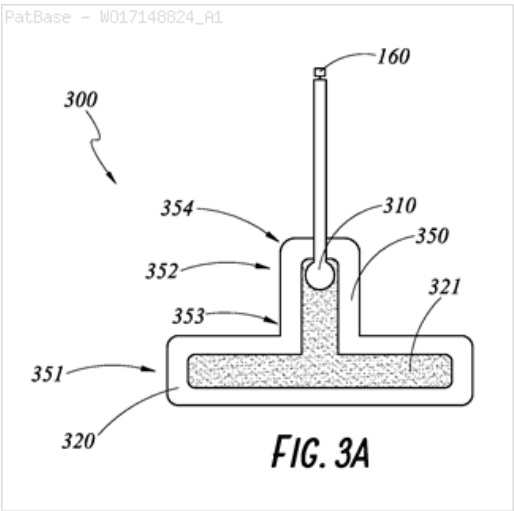
**Title:** NEGATIVE PRESSURE WOUND THERAPY APPARATUS FOR POST BREAST SURGERY WOUNDS

**Abstract:** Disclosed embodiments relate to apparatuses and methods for wound treatment. In certain embodiments, a negative pressure wound therapy apparatus includes one or more wound dressings configured to be used to treat surgical wounds including post-breast surgery wounds. In some embodiments, a single negative pressure source can be used with one or more wound dressing to treat one or more wounds.

**Classifications:**

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

**CPC:** A61M1/0088 A61M2210/1007



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO17148824 A1      | 20170908         | WO2017EP54369      | 20170224         |

**Priority:**

US20160304010P 20160304      US20160304079P 20160304      US20160380907P 20160829

**Probable Assignee:** SMITH AND NEPHEW PLC

**Assignee(s):** (std): SMITH AND NEPHEW

**Assignee(s):** SMITH AND NEPHEW PLC

**Inventor(s):** (std): GOWANS JOHN PHILIP ; NOBLE STEPHANIE JANE ; ASKEM BEN ALAN

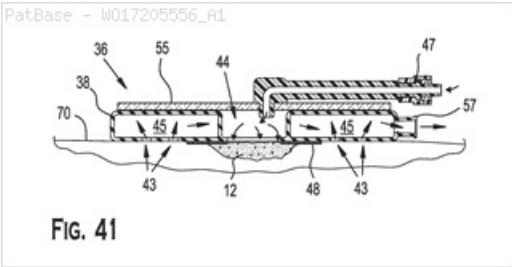
**Agent(s):** HINES ADAM

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**Title:** NEGATIVE PRESSURE SEAL FOR A GAS THERAPY DRESSING

**Abstract:** A dressing for delivering pressurized therapy gas to a wound. The dressing may include a negative pressure structure for creating a sealed pocket around the wound. The negative pressure structure may include a pocket (or chamber) and an aperture within the pocket. A first lumen may be fluidly connected to the aperture for delivering pressurized therapy gas to the pocket. A second lumen may be fluidly connected to the negative pressure structure for reducing pressure around the pocket and sealing the pocket around the wound. A first pump may include a first intake port fluidly connected to a first reservoir of therapy gas, as well as a first discharge port fluidly connected to the first lumen for supplying therapy gas at an increased pressure. A second pump may evacuate gas from the negative pressure structure to seal the pocket around the wound. Pressurized therapy gas may be delivered to the sealed pocket from the aperture to treat the wound.

**Classifications:**  
**International (IPC 8-9):** A61F13/00 (Advanced/Invention)  
**CPC:** A61F13/00 A61F13/00068 A61M1/0088



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO17205556 A1      | 20171130         | WO2017US34350      | 20170524         |

**Priority:**

US20160341065P 20160524

**Probable Assignee:** NEOGENIX LLC

**Assignee(s):** (std): NEOGENIX LLC

**Inventor(s):** (std): CALI LAWRENCE J ; SARANGAPANI SRINIVASAN

**Agent(s):** STONE GREGORY ET AL

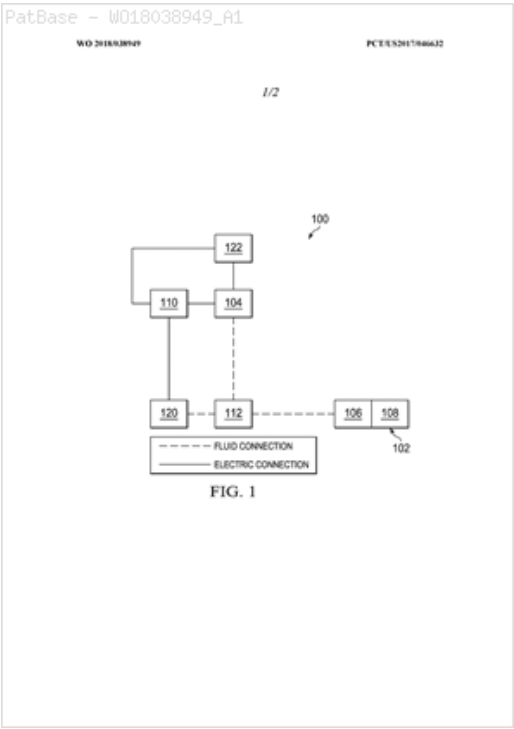
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**Title:** WOUND DRESSING WITH ANALGESIC BORDER ADHESIVE

**Abstract:** A dressing may comprise a backing layer having an interior region and a border region around the interior region. A dermal interface may be disposed in the border region. The dermal interface may comprise an adhesive and a therapeutic composition, such as a topical analgesic. The therapeutic composition may be dissolved into the adhesive, and preferably constitutes at least 20 percent of the dermal interface. In some embodiments, the therapeutic composition may comprise at least 30 percent of the dermal interface.

**Classifications:**

**International (IPC 8-9):** A61F13/00 A61F13/02  
A61K9/70 (Advanced/Invention)  
**CPC:** A61F13/02 A61F13/00063 A61F13/00068 A61F13/0203 A61F13/0216  
A61K9/7038



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| WO18038949 A1      | 20180301         | WO2017US46632      | 20170811         |

**Priority:**

US20160380079P 20160826

**Probable Assignee:** KCI USA INC

**Assignee(s):** (std): KCI LICENSING INC ; KCI USA INC ; SYSTAGENIX WOUND MAN IP CO BV

**Assignee(s):** SYSTAGENIX WOUND MANAGEMENT IP CO BV

**Inventor(s):** (std): LOCKE CHRISTOPHER BRIAN ; PIGG WILLIAM

**Agent(s):** SCHIANO THOMAS E ET AL

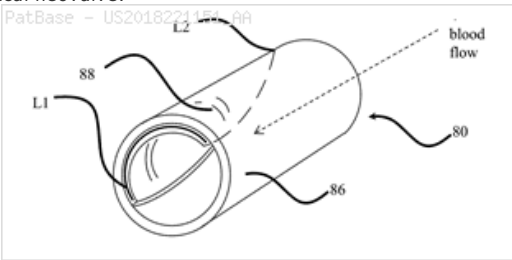
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**Title:** DEVICE AND ASSOCIATED PERCUTANEOUS MINIMALLY INVASIVE METHOD FOR CREATING A VENOUS VALVE

**Abstract:** A device includes a stent scaffold structure supporting a patch on an interior surface thereof. The device may be used to produce a neovalve in a percutaneous minimally invasive manner. Exemplary methods include implanting the device, permitting a growth layer to form over at least a portion of the patch, and separating the patch from the stent scaffold thereby forming a slit or gap in the vessel wall to act as a valve similar to the surgical neovalve.

**Classifications:**

**International (IPC 8-9):** A61F2/24 A61F2/90  
A61F2/915 (Advanced/Invention)  
**CPC:** A61F2/2475 A61F2/90 A61F2/95 A61F2230/0017 A61F2230/0008  
A61F2/915 A61F2002/91575 A61F2002/91583 A61F2230/0054  
A61F2230/0056 A61F2230/0069 A61F2230/0091



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2018221151 AA    | 20180809         | US20170425353      | 20170206         |
| WO18144042 A1      | 20180809         | WO2017US21662      | 20170309         |

**Priority:**

US20170425353 20170206

**Probable Assignee:** BARD INC C R

**Assignee(s):** (std): BARD INC C R

**Assignee(s):** CR BARD INC ; CRBARD INC

**Inventor(s):** (std): CHANDUSZKO ANDRZEJ ; CHANDUSZKO ANDRZEJ J

**Agent(s):** BARNES KARI L

**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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW