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[Continued on next page]

(54) Title: DRESSING ASSEMBLIES FOR WOUND TREATMENT USING REDUCED PRESSURE

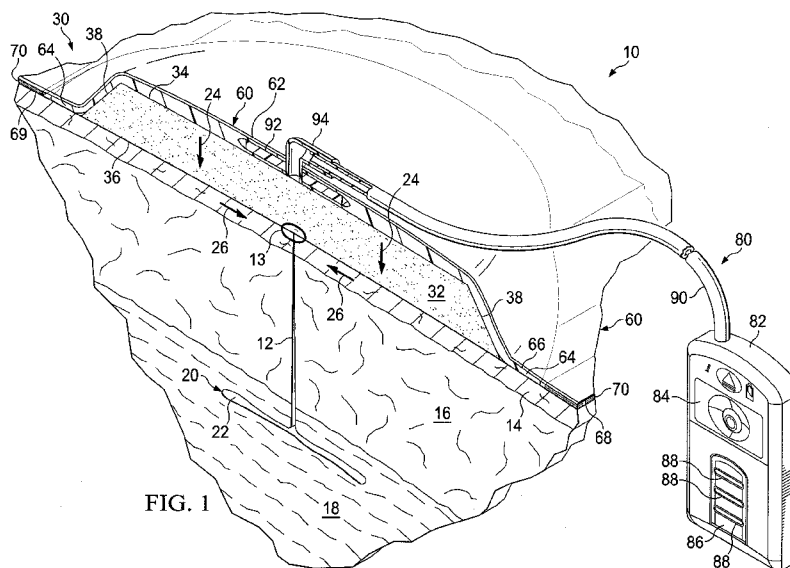
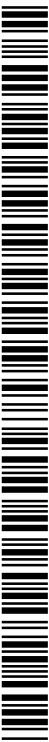


FIG. 1

(57) Abstract: A dressing assembly for use with a reduced pressure treatment system, the dressing assembly develops a directed force under reduced pressure. The directed force may be a radial force or a closing force. The dressing assembly (30) includes a shaped dressing bolster (32) having a shaped extremity (33) that is operable to evenly deliver the radial force and to distribute reduced pressure. Numerous shapes may be used for the shaped extremity. The dressing assembly may further include an over-drape (62) to assist in creating a seal over the shaped dressing bolster and against a portion of a patient's epidermis.



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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

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INV. A61M1/00 A61F13/02 A61L15/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61M A61F A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 691 113 A1 (SETON HEALTHCARE GROUP PLC [GB]) 10 January 1996 (1996-01-10)	1-8, 12, 14-17, 20, 27, 36-37, 39-40, 42
Y	page 4, lines 1-15 page 5, line 58 - page 6, line 38; figures 1-12	13, 19, 23-26, 34, 38, 41
Y	----- US 2008/076844 A1 (VAN SUMEREN MARK W [US] ET AL) 27 March 2008 (2008-03-27) paragraphs [0007], [0012]	23-26
X	WO 2007/031762 A1 (SMITH & NEPHEW [GB]; BLOTT PATRICK LEWIS [GB]; NICOLINI DEREK [GB]; HA) 22 March 2007 (2007-03-22)	30-31, 33, 43-45
Y	page 67, line 36 - page 68, line 5; figures 5a, 5b ----- -/--	34, 46-47

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

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International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2007/033679 A2 (COLOPLAST AS [DK]; BUDIG KLAUS [DK]; NIELSEN BRIAN [DK]) 29 March 2007 (2007-03-29). page 8, lines 13-23; figure 3 -----	13,34, 41,46
Y	DE 20 2006 007877 U1 (RIESINGER BIRGIT [DE]) 27 July 2006 (2006-07-27) paragraphs [0037], [0044], [0047]; figure 3 -----	19,38,47
A	US 2007/021697 A1 (GINTHER DEVIN C [US] ET AL) 25 January 2007 (2007-01-25) paragraphs [0070] - [0072], [129], [0130]; figures 4,13 -----	1-48

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/045750

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 49-52
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-29, 36-42

A dressing assembly comprising a shaped dressing bolster having an oblique extremity, the bolster material having a density greater than 20 kg/m³.

2. claims: 30-35

A dressing assembly comprising a shaped dressing bolster having an oblique extremity, an over-drape and an adhesive perimeter strip.

3. claims: 43-48

A reduced-pressure dressing assembly comprising a directed-force member having an oblique edge, the directed-force member being formed from a medical bolster material having a plurality of channels, and a drape over the directed-force member.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/045750

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0691113	A1	10-01-1996	AT 194480 T 15-07-2000
			AU 706006 B2 03-06-1999
			AU 2054295 A 14-12-1995
			DE 69517876 D1 17-08-2000
			DE 69517876 T2 22-02-2001
			DK 691113 T3 13-11-2000
			ES 2151025 T3 16-12-2000
			GR 3034614 T3 31-01-2001
			JP 8154964 A 18-06-1996
			PT 691113 E 29-12-2000
			US 5973221 A 26-10-1999
			ZA 9504703 A 29-01-1996
			US 2008076844
CA 2663860 A1 27-03-2008			
CN 101541869 A 23-09-2009			
EP 2074164 A2 01-07-2009			
KR 20090073186 A 02-07-2009			
WO 2008036942 A2 27-03-2008			
WO 2007031762	A1	22-03-2007	
			CA 2622632 A1 22-03-2007
			CN 101304772 A 12-11-2008
			EP 1942962 A1 16-07-2008
			JP 2009508550 T 05-03-2009
			KR 20080047461 A 28-05-2008
			US 2009221977 A1 03-09-2009
			ZA 200802398 A 30-09-2009
WO 2007033679	A2	29-03-2007	AU 2006294209 A1 29-03-2007
			CA 2622263 A1 29-03-2007
			CN 101272752 A 24-09-2008
			CN 101287429 A 15-10-2008
			EP 1931289 A2 18-06-2008
			JP 2009510187 T 12-03-2009
			US 2009076431 A1 19-03-2009
			DE 202006007877
WO 2007085396 A1 02-08-2007			
US 2007021697	A1	25-01-2007	CA 2657220 A1 31-01-2008
			CN 101489600 A 22-07-2009
			EP 2043705 A2 08-04-2009
			JP 2009544410 T 17-12-2009
			WO 2008013896 A2 31-01-2008