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Declarations under Rule 4.17:

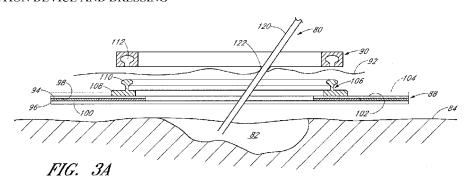
of inventorship (Rule 4.17(iv))

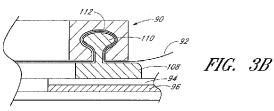
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3 December 2009

(54) Title: SUCTION DEVICE AND DRESSING





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



INTERNATIONAL SEARCH REPORT

International application No PCT/US2008/084433

A. CLASSIFICATION OF SUBJECT MATTER INV. A61M1/00

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) $A61\mbox{M}^{\circ}$

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, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.
X Y	WO 01/93793 A (TWO BEATS BV [ALBERT GEORGE [NL]; SMIT BART FREDE) 13 December 2001 (2001	HOLOMEUS	1,5-8, 10,11, 16,17,26 2-4,9, 12-15,
	claims; figure page 1, line 36 - page 2, lin	e 33	18–25
X ′.	US 6 110 197 A (AUGUSTINE SCO AL) 29 August 2000 (2000-08-2 figures column 2, line 34 - column 3, column 5, lines 8-32	9)	1,5-7, 16,26
Υ	US 4 778 446 A (JENSEN OLE R 18 October 1988 (1988-10-18) column 5, lines 6-18; figures	,	2,3
		-/	
<u> </u>	her documents are listed in the continuation of Box C. categories of cited documents :	"T" later document published after the inte	rnational filing date
"E" earlier of filling of "L" docume which citatio "O" docume other of docume of the results of	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the do "Y" document of particular relevance; the cannot be considered to involve an involve and its combined with one or more ments, such combination being obvious in the art.	the application but every underlying the considered to considered to cument is taken alone claimed invention wentive step when the ore other such docuus to a person skilled
laterti	nan the priority date claimed actual completion of the international search	"&" document member of the same patent Date of mailing of the international sea	
	October 2009	15/10/2009	
Name and r	mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer	

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/084433

640 ···		PC1/US2008/084433
C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	US 2005/222528 A1 (WESTON RICHARD S [US]) 6 October 2005 (2005-10-06) paragraphs [0033], [0034], [0043]; figures	4,18-25, 28-30
Υ.	US 6 458 109 B1 (HENLEY ALAN WAYNE [US] ET AL) 1 October 2002 (2002-10-01)	9,12-15, 18-25, 28-30
. :	claims; figures page 2, line 15 - page 4, line 11 page 5, line 15 - page 8, line 12	
Y	WO 2007/030601 A (TYCO HEALTHCARE [US]; HAGGSTROM KURT [US]; TRANCHEMONTAGNE ALAIN [US];) 15 March 2007 (2007-03-15) figures	18-25, 28-30
Χ	US 2007/032762 A1 (VOGEL RICHARD C [US])	27,31-33
Υ	8 February 2007 (2007-02-08) claims; figure 1 paragraphs [0020] - [0022]	28-30
Y	US 6 174 306 B1 (FLEISCHMANN WIM [DE]) 16 January 2001 (2001-01-16) claims; figures column 3, line 52 - column 4, line 9 column 5, line 45 - column 6, line 5	28-30
A	WO 2007/041642 A (KCI LICENSING INC [US]; BUBB STEPHEN K [US]; ZAMIEROWSKI DAVID S [US]) 12 April 2007 (2007-04-12) page 30, line 21 - page 31, line 12; figures 33,34	27
A	DE 20 2005 019670 U1 (RIESINGER BIRGIT [DE]) 27 April 2006 (2006-04-27) paragraphs [0032], [0033]; figures	27,28
А	US 5 505 210 A (CLEMENT THOMAS P [US]) 9 April 1996 (1996-04-09) column 7, lines 3-25; figure 5	27

International application No. PCT/US2008/084433

INTERNATIONAL SEARCH REPORT

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. X Claims Nos.: 34-40 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
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. X 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 reportcovers 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.:
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.
X 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: 1-26

Apparatus for the application of negative pressure therapy comprising a dressing with a base portion, a detachable portion and a flexible membrane.

2. claims: 27-33

apparatus for providing a source of reduced pressure to a cover comprising a first and a second suction device and a power source.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2008/084433

	tent document in search report		Publication date		Patent family member(s)		Publication date
WO	0193793	Α	13-12-2001	AU NL	5511201 1015146		17-12-2001 13-11-2001
US	6110197	A	29-08-2000	AT AU AU CA DE DE EP WO US	206904 728764 5959098 2284166 69802075 69802075 0973469 9846178 6267740	B2' A A1 D1 T2 A1	15-11-2001 18-01-2001 11-11-1998 22-10-1998 22-11-2001 06-06-2002 26-01-2000 22-10-1998 31-07-2001
บร	4778446	Α	18-10-1988	EP	0355186	A1	28-02-1990
US	2005222528	A1	06-10-2005	NONE		-	
US	6458109	B1	01-10-2002	US US	7276051 2007233022		02-10-2007 04-10-2007
MÓ	2007030601	Α	15-03-2007	AU CA CN EP JP	2006287463 2619929 101257875 1922045 2009506878	A1 A A2	15-03-2007 15-03-2007 03-09-2008 21-05-2008 19-02-2009
US	2007032762	A1	08-02-2007	CA CN JP US	2628252 101296716 2009504246 2009069761	A T	15-02-2007 29-10-2008 05-02-2009 12-03-2009
US	6174306	·B1	16-01-2001	WO DE EP JP JP	9635401 19517699 0825844 3300930 11504833	A1 A1 B2	14-11-1996 14-11-1996 04-03-1998 08-07-2002 11-05-1999
WO	2007041642	A	12-04-2007	AU CA CN DE EP ES JP KR ZA	2006299436 2624404 101277734 06816259 1931413 2310161 2009509695 20080066764 200803694	A1 T1 A2 T1 T	12-04-2007 12-04-2007 01-10-2008 09-10-2008 18-06-2008 01-01-2009 12-03-2009 16-07-2008 25-03-2009
DE	202005019670	υí	27-04-2006	EP WO US	1959889 2007068477 2008306456	A1	27-08-2008 21-06-2007 11-12-2008
US	5505210	Α	09-04-1996	NONE			